Summary

This is a report for Outcome 3 of Programming Languages (CMPS 450)

Total number of students in this class was 34.

This course maps to Outcomes 3 and 5.

Outcome 3 is defined as:

"Be proficient in more than one programming language on more than one computing platform"

Percentage of students who fulfilled Outcome 3 in different levels:

- 8.57% of students between 0 49 (Amateur)
- 34.28% of students between 50 69 (Developing)
- 28.57% of students between 70 84 (Developed)
- 22.85 of students between 85 100 (Exemplary)

Te	rm: Fall 2016	6	Instructor: Mohsen Amini Salehi			
Outcome: Be pr	oficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing
Performance	1	2	3	4	SCORE	How
Criteria	Amateur	Developing	Developed	Exemplary	SCOKE	Measured
Explain different programming	×				33	Midterm 1 (Q 1 – 2),
languages paradigms						(& 1 2),
Develop programs in functional programming language paradigm	X				23	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)
Develop programs in logical programming paradigm		Х			65	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)
Develop and Extend objects in ObjectOriented Programming			Х		71	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)
Apply knowledge obtainedin learning a new programming language			X		73	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)

Te	rm: Fall 2010	<u> </u>	Instructor: Mohsen Amini Salehi				
Outcome: Be pi	roficient in m	ore than one p	rogramming la	anguage on me	ore than one	computing	
platform							
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	OGGIKE	Measured	
Explain							
different						Midterm 1	
programming		X			66	(Q 1 - 2),	
languages						(& 1 2),	
paradigms							
Develop						Assignment 1	
programs in						Assignment 1, Midterm 1	
functional			Х		80	(Q 3 – 5),	
programming			^		80	Final	
language						(Q 5)	
paradigm						(& 0)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			65	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	99	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4	
knowledge						Assignment 4, Midterm 2	
obtained in			Х		78	(Q 6)	
learning a new			^		70	Final	
programming						(Q 1, 4, 6)	
language						(4, 1, 1, 0)	

Score: 0 – 49 Amateur, 50 – 69 Developing, 70 – 84 Developed, 85 – 100 Exemplary

Te	rm: Fall 2016	3	lı	Instructor: Mohsen Amini Salehi			
Outcome: Be proposed	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCOKE	Measured	
Explain							
different						Midterm 1	
programming			X		76	(Q 1 - 2),	
languages						(\(\text{\alpha} \) \(\text{\alpha} \)	
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional			X		77	(Q 3 - 5),	
programming						Final	
language						(Q 5)	
paradigm						(- , - ,	
Develop						Assignment 2,	
programs in						Midterm 2	
logical				X	86	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	93	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4,	
knowledge						Midterm 2	
obtained in			X		78	(Q 6)	
learning a new					, 0	Final	
programming						(Q 1, 4, 6)	
language						(, ., .)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

	rm: Fall 2016		Instructor: Mohsen Amini Salehi			
Outcome: Be pr	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing
platform						
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured
Explain						
different						Midterm 1
programming	X				16	(Q 1 – 2),
languages						$(\mathbf{Q}_{1}-\mathbf{Z}),$
paradigms						
Develop						Assignment 1
programs in						Assignment 1, Midterm 1
functional				X	89	(Q 3 – 5),
programming				^	09	Final
language						(Q 5)
paradigm						(40)
Develop						Assignment 2,
programs in						Midterm 2
logical		X			65	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object			X		84	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						Aggign mant 4
knowledge						Assignment 4, Midterm 2
obtained in				X	88	(Q 6)
learning a new				_ ^	00	Final
programming						(Q 1, 4, 6)
language						(, , , , , ,

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

language

Te	rm: Fall 2016	5	Instructor: Mohsen Amini Salehi					
Outcome: Be pr	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing		
platform								
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured		
Explain								
different						Midtown 1		
programming			X		66	Midterm 1		
languages						(Q 1 - 2),		
paradigms								
Develop						A :		
programs in						Assignment 1		
functional				X	89	Midterm 1		
programming				^	09	(Q 3 – 5), Final		
language						(Q 5)		
paradigm						(Q 3)		
Develop						Assignment 2		
programs in						Midterm 2		
logical			X		71	(Q 2, 4, 5),		
programming						Final		
paradigm						(Q 3)		
Develop and						Assignment 3		
Extend objects						Midterm 2		
in Object		X			68	(Q 1, 3)		
Oriented						Final		
Programming						(Q 2)		
Apply						Λορίους : :- 1 - 4		
knowledge						Assignment 4 Midterm 2		
obtained in		X			67			
learning a new		^			07	(Q 6) Final		
programming						(Q 1, 4, 6)		
language						((, 7, 0)		

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

_			-			
	rm: Fall 2016		Instructor: Mohsen Amini Salehi orogramming language on more than one computing			
·	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing
platform				1 4		
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured
Explain						
different						Midterm 1
programming	X				33	(Q 1 – 2),
languages						(Q 1 - Z),
paradigms						
Develop						Assignment 1
programs in						Assignment 1, Midterm 1
functional		X			52	(Q 3 – 5),
programming		^			32	Final
language						(Q 5)
paradigm						(40)
Develop						Assignment 2,
programs in						Midterm 2
logical	X				47	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object			X		72	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						Assignment 4,
knowledge						Midterm 2
obtained in		X			58	(Q 6)
learning a new					50	Final
programming						(Q 1, 4, 6)
language						(-, -, -, -,

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

language

Te	rm: Fall 2016	6	Instructor: Mohsen Amini Salehi				
Outcome: Be pi	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
platform							
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain							
different						Midtown 1	
programming	X				30	Midterm 1	
languages						(Q 1 - 2),	
paradigms							
Develop						A = =!===	
programs in						Assignment 1	
functional					00	Midterm 1	
programming				X	92	(Q 3 – 5), Final	
language						(Q 5)	
paradigm						(Q 3)	
Develop						Assignment 2	
programs in						Midterm 2	
logical		X			68	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3	
Extend objects						Midterm 2	
in Object				X	86	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply							
knowledge						Assignment 4	
obtained in			V		00	Midterm 2	
learning a new			X		80	(Q 6)	
programming						Final	
language						(Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

	rm: Fall 2016		Instructor: Mohsen Amini Salehi orogramming language on more than one computing			
-	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing
platform				1 4		
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured
Explain			•			
different						B 41 14
programming		X			60	Midterm 1
languages						(Q 1 – 2),
paradigms						
Develop						
programs in						Assignment 1,
functional			V		70	Midterm 1
programming			Х		78	(Q 3 - 5),
language						Final (Q 5)
paradigm						(Q 5)
Develop						Assignment 2,
programs in						Midterm 2
logical		X			54	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object		X			69	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						Accionment 4
knowledge						Assignment 4, Midterm 2
obtained in			Х		70	(Q 6)
learning a new			^		70	Final
programming						(Q 1, 4, 6)
language						(= :, :, 3)

Score: 0 – 49 Amateur, 50 – 69 Developing, 70 – 84 Developed, 85 – 100 Exemplary

Term: Fall 2016			Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms	Х				6	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm		Х			61	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm	Х				45	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming				X	71	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language			X		66	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2010	6	Instructor: Mohsen Amini Salehi			
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing
Performance	1	2	3	4	SCORE	How
Criteria	Amateur	Developing	Developed	Exemplary	OOOKL	Measured
Explain						
different						Midterm 1
programming			X		75	(Q 1 - 2),
languages						$(Q \mid -2),$
paradigms						
Develop						A = = : = = = = = + .4
programs in						Assignment 1, Midterm 1
functional				X	87	
programming				^	07	(Q 3 – 5), Final
language						(Q 5)
paradigm						(0,0)
Develop						Assignment 2,
programs in						Midterm 2
logical		X			65	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object			X		78	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						
knowledge						Assignment 4,
obtained in		V			5 0	Midterm 2
learning a new		X			59	(Q 6) Final
programming						
language						(Q 1, 4, 6)

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2010	6	Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary		Measured	
Explain							
different		V			50	Midterm 1	
programming		X			50	(Q 1 - 2),	
languages							
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional			X		83	(Q 3 - 5),	
programming			, ,			Final	
language						(Q 5)	
paradigm						(' '	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			69	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object		X			55	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Accionment 4	
knowledge						Assignment 4, Midterm 2	
obtained in		X			68	(Q 6)	
learning a new		^			00	Final	
programming						(Q 1, 4, 6)	
language						(🗷 1, 7, 0)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	6	Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms	Х				40	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm		Х			50	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm	Х				44	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming	Х				32	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language		X			50	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2010	6	Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing	
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms		Х			53	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm		Х			65	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm		х			62	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming		Х			63	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language		Х			69	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 201	6	Instructor: Mohsen Amini Salehi				
Outcome: Be population	roficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing	
Performance	1	2	3	4		How	
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured	
Explain			-				
different						Midtown 1	
programming				X	90	Midterm 1 (Q 1 – 2),	
languages						(Q 1 - 2),	
paradigms							
Develop						A :	
programs in						Assignment 1, Midterm 1	
functional		X			52	(Q 3 – 5),	
programming		^			32	Final	
language						(Q 5)	
paradigm						(4.5)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			62	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object			X		83	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4,	
knowledge						Midterm 2	
obtained in		X			63	(Q 6)	
learning a new						Final	
programming						(Q 1, 4, 6)	
language							

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2010	6	Instructor: Mohsen Amini Salehi				
Outcome: Be pr	roficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing	
platform		1				1	
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms	Х				46	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm			Х		75	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm		Х			66	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming			Х		81	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming		X			68	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0 – 49 Amateur, 50 – 69 Developing, 70 – 84 Developed, 85 – 100 Exemplary

Te	rm: Fall 2016	6	Instructor: Mohsen Amini Salehi			
Outcome: Be proposed platform	roficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing
Performance	1	2	3	4	SCORE	How
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured
Explain						
different					40	Midterm 1
programming	X				43	(Q 1 - 2),
languages						
paradigms						
Develop						Assignment 1,
programs in						Midterm 1
functional			X		77	(Q 3 - 5),
programming						Final
language						(Q 5)
paradigm						(= 0)
Develop						Assignment 2,
programs in						Midterm 2
logical		X			50	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object			X		74	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						
knowledge						Assignment 4,
obtained in					60	Midterm 2
learning a new		X			60	(Q 6)
programming						Final
language						(Q 1, 4, 6)

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	 6	lı	Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform								
Performance	1	2	3	4	SCORE	How		
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured		
Explain								
different						Midterm 1		
programming				X	96	(Q 1 - 2),		
languages						(& 1 2),		
paradigms								
Develop						Assignment 1,		
programs in						Midterm 1		
functional			X		76	(Q 3 - 5),		
programming			^		70	Final		
language						(Q 5)		
paradigm						(= 0)		
Develop						Assignment 2,		
programs in						Midterm 2		
logical		X			62	(Q 2, 4, 5),		
programming						Final		
paradigm						(Q 3)		
Develop and						Assignment 3,		
Extend objects						Midterm 2		
in Object				X	86	(Q 1, 3)		
Oriented						Final		
Programming						(Q 2)		
Apply						Assignment 4,		
knowledge						Midterm 2		
obtained in			X		76	(Q 6)		
learning a new						Final		
programming						(Q 1, 4, 6)		
language						(=, , , =)		

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	 6	lı	Instructor: Mohsen Amini Salehi			
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCOKE	Measured	
Explain							
different						Midterm 1	
programming			X		83	(Q 1 – 2),	
languages						(Q 1 2),	
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional				X	90	(Q 3 – 5),	
programming				^	30	Final	
language						(Q 5)	
paradigm						(4.5)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			68	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	92	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4	
knowledge						Assignment 4, Midterm 2	
obtained in				X	90	(Q 6)	
learning a new				^	90	Final	
programming						(Q 1, 4, 6)	
language						(94 1, 1, 0)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

	rm: Fall 2016		Instructor: Mohsen Amini Salehi				
Outcome: Be proplatform	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms	Х				33	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm		X			63	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm		х			60	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming		Х			59	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language		X			57	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	6	Instructor: Mohsen Amini Salehi			
Outcome: Be pr	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing
Performance	1	2	3	4	SCORE	How
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured
Explain						
different						Midterm 1
programming	X				43	(Q 1 – 2),
languages						(Q 1 - 2),
paradigms						
Develop						Assignment 1
programs in						Assignment 1, Midterm 1
functional				X	92	(Q 3 – 5),
programming					32	Final
language						(Q 5)
paradigm						(4.5)
Develop						Assignment 2,
programs in						Midterm 2
logical		X			61	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object				X	93	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						Assignment 4,
knowledge						Midterm 2
obtained in				X	80	(Q 6)
learning a new						Final
programming						(Q 1, 4, 6)
language						, , - ,

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 201	6	Instructor: Mohsen Amini Salehi				
Outcome: Be p	roficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing	
platform	1		T	· -		T	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary		Measured	
Explain							
different						Midterm 1	
programming		X			60	(Q 1 - 2),	
languages						(/ ,	
paradigms							
Develop						Assignment 1	
programs in						Midterm 1	
functional				X	90	(Q 3 - 5),	
programming					30	Final	
language						(Q 5)	
paradigm						(4.0)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical			X		70	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	96	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						A = = i = = = = = 1	
knowledge						Assignment 4, Midterm 2	
obtained in		X			69		
learning a new		^			69	(Q 6) Final	
programming						(Q 1, 4, 6)	
language						(🔾 1, 4, 0)	

Score: 0 – 49 Amateur, 50 – 69 Developing, 70 – 84 Developed, 85 – 100 Exemplary

Te	rm: Fall 2016	3	lı	Instructor: Mohsen Amini Salehi			
Outcome: Be pr	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
platform				_			
Performance	1	2 Developing	3 Davidanad	4 Everanlem	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary		Measured	
Explain							
different			X		70	Midterm 1	
programming			X		76	(Q 1 - 2),	
languages							
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional .			X		80	(Q 3 - 5),	
programming						` Final ´	
language						(Q 5)	
paradigm							
Develop						Assignment 2,	
programs in						Midterm 2	
logical				X	86	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	88	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4,	
knowledge						Midterm 2	
obtained in		X			64	(Q 6)	
learning a new					0-7	Final	
programming						(Q 1, 4, 6)	
language						(\(\infty\)., ., \(\infty\)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	3	lı.	Instructor: Mohsen Amini Salehi			
Outcome: Be pr	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured	
Explain							
different						Midterm 1	
programming	X				30	(Q 1 - 2),	
languages						(\(\mathref{Q} \) \(\mathref{L} \),	
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional				X	92	(Q 3 – 5),	
programming				^	92	Final	
language						(Q 5)	
paradigm						(& 3)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical			X		81	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	92	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Aggign mant 4	
knowledge						Assignment 4, Midterm 2	
obtained in			X		79		
learning a new			^		79	(Q 6) Final	
programming						(Q 1, 4, 6)	
language						(🔾 1, 4, 0)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	ĵ	Instructor: Mohsen Amini Salehi				
Outcome: Be pr	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
platform	1	1	T	1			
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms	Х				23	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm	Х				18	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm	Х				12	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming	Х				35	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming	Х				38	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Term: Fall 2016			lı	Instructor: Mohsen Amini Salehi			
Outcome: Be proficient in more than one programming language on more than one computing platform							
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCOKE	Measured	
Explain							
different						Midterm 1	
programming		X			53	(Q 1 - 2),	
languages						(& 1 2),	
paradigms							
Develop						Assignment 1,	
programs in						Midterm 1	
functional			X		78	(Q 3 – 5),	
programming			^		70	Final	
language						(Q 5)	
paradigm						(= 0)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical			X		71	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	86	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4,	
knowledge						Midterm 2	
obtained in				X	86	(Q 6)	
learning a new					50	Final	
programming						(Q 1, 4, 6)	
language						(, ., .)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

	rm: Fall 2016		Instructor: Mohsen Amini Salehi				
Outcome: Be proficient in more than one programming language on more than one computing platform							
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCOKE	Measured	
Explain different							
programming		X			66	Midterm 1	
languages					00	(Q 1 - 2),	
paradigms							
Develop							
programs in						Assignment 1,	
functional						Midterm 1	
programming		X			55	$(Q_3 - 5),$	
language						Final	
paradigm						(Q 5)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			60	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object				X	86	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4	
knowledge						Assignment 4, Midterm 2	
obtained in			×		69	(Q 6)	
learning a new					03	Final	
programming						(Q 1, 4, 6)	
language						(, , , ,)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Te	rm: Fall 2016	5	lı	Instructor: Mohsen Amini Salehi			
Outcome: Be proplatform	oficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary		Measured	
Explain different programming languages	X				10	Midterm 1 (Q 1 – 2),	
paradigms							
Develop programs in functional programming language paradigm	Х				19	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm	х				36	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming		Х			52	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language	X				38	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

	rm: Fall 2016			nstructor: Moh				
<u>.</u>	Outcome: Be proficient in more than one programming language on more than one computing							
	platform							
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured		
Explain	Ailiateui	Developing	Developed	Exemplary		Wieasureu		
different								
programming	X				50	Midterm 1		
	^				50	(Q 1 - 2),		
languages								
paradigms								
Develop programs in						Assignment 1,		
functional						Midterm 1		
		X			64	(Q 3 - 5),		
programming						Final		
language						(Q 5)		
paradigm						A : 10		
Develop						Assignment 2,		
programs in		X			54	Midterm 2		
logical		^			54	(Q 2, 4, 5), Final		
programming						(Q 3)		
paradigm Develop and						` ′		
Extend objects						Assignment 3, Midterm 2		
in Object		X			61	(Q 1, 3)		
Oriented		^			01	Final		
Programming						(Q 2)		
Apply						(& 2)		
knowledge						Assignment 4,		
obtained in						Midterm 2		
learning a new			X		75	(Q 6)		
programming						Final		
						(Q 1, 4, 6)		
language								

Score: 0 – 49 Amateur, 50 – 69 Developing, 70 – 84 Developed, 85 – 100 Exemplary

Term: Fall 2016			Instructor: Mohsen Amini Salehi				
Outcome: Be pr	roficient in m	ore than one p	rogramming la	anguage on mo	ore than one	computing	
platform							
Performance Criteria	1 Amateur	2 Developing	3 Developed	4 Exemplary	SCORE	How Measured	
Explain different programming languages paradigms			X		83	Midterm 1 (Q 1 – 2),	
Develop programs in functional programming language paradigm			Х		84	Assignment 1, Midterm 1 (Q 3 – 5), Final (Q 5)	
Develop programs in logical programming paradigm			Х		75	Assignment 2, Midterm 2 (Q 2, 4, 5), Final (Q 3)	
Develop and Extend objects in Object Oriented Programming				X	96	Assignment 3, Midterm 2 (Q 1, 3) Final (Q 2)	
Apply knowledge obtained in learning a new programming language			Х		82	Assignment 4, Midterm 2 (Q 6) Final (Q 1, 4, 6)	

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Term: Fall 2016			lı	Instructor: Mohsen Amini Salehi				
	Outcome: Be proficient in more than one programming language on more than one computing platform							
Performance	1	2	3	4	CCORE	How		
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured		
Explain								
different						Midterm 1		
programming	X				40	(Q 1 – 2),		
languages						(Q 1 - 2),		
paradigms								
Develop						Assignment 1		
programs in						Assignment 1, Midterm 1		
functional		X			68	(Q 3 - 5),		
programming		^			00	Final		
language						(Q 5)		
paradigm						(40)		
Develop						Assignment 2,		
programs in						Midterm 2		
logical	X				33	(Q 2, 4, 5),		
programming						Final		
paradigm						(Q 3)		
Develop and						Assignment 3,		
Extend objects						Midterm 2		
in Object	X				42	(Q 1, 3)		
Oriented						Final		
Programming						(Q 2)		
Apply						Assignment 4,		
knowledge						Midterm 2		
obtained in			X		78	(Q 6)		
learning a new						Final		
programming						(Q 1, 4, 6)		
language								

Score: 0-49 Amateur, 50-69 Developing, 70-84 Developed, 85-100 Exemplary

Term: Fall 2016			Instructor: Mohsen Amini Salehi				
Outcome: Be proficient in more than one programming language on more than one computing platform							
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured	
Explain							
different						Midterm 1	
programming	X				33	(Q 1 – 2),	
languages						(& 1 2),	
paradigms							
Develop						Assignment 1	
programs in						Assignment 1, Midterm 1	
functional			X		71	(Q 3 - 5),	
programming			Α		, ,	Final	
language						(Q 5)	
paradigm						(4.5)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			58	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object			X		70	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4	
knowledge						Assignment 4, Midterm 2	
obtained in		×			54	(Q 6)	
learning a new					J-7	Final	
programming						(Q 1, 4, 6)	
language						(🗷 1, 1, 0)	

Term: Fall 2016			Instructor: Mohsen Amini Salehi			
Outcome: Be proficient in more than one pr			rogramming la	anguage on m	ore than one	computing
platform				1		1
Performance Criteria	1 Amateur	2 Davidonina	3 Developed	4 Evennlend	SCORE	How Measured
	Amateur	Developing	Developed	Exemplary		Measureu
Explain different						
	Х				43	Midterm 1
programming	^				43	(Q 1 - 2),
languages						
paradigms						
Develop						Assignment 1,
programs in						Midterm 1
functional		X			69	(Q 3 - 5),
programming						Final
language						(Q 5)
paradigm						
Develop						Assignment 2,
programs in		V			50	Midterm 2
logical .		X			56	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object		X			69	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						Assignment 4,
knowledge						Midterm 2
obtained in			X		71	(Q 6)
learning a new						Final
programming						(Q 1, 4, 6)
language						(-, -, -, -)

Te	rm: Fall 2016	<u> </u>	Instructor: Mohsen Amini Salehi				
Outcome: Be proficient in more than one programming language on more than one computing platform							
Performance	1	2	3	4	SCORE	How	
Criteria	Amateur	Developing	Developed	Exemplary	SCORE	Measured	
Explain							
different						Midterm 1	
programming				X	96	(Q 1 – 2),	
languages						(Q 1 2),	
paradigms							
Develop						Assignment 1	
programs in						Assignment 1, Midterm 1	
functional				X	88	(Q 3 – 5),	
programming					00	Final	
language						(Q 5)	
paradigm						(4.0)	
Develop						Assignment 2,	
programs in						Midterm 2	
logical		X			62	(Q 2, 4, 5),	
programming						Final	
paradigm						(Q 3)	
Develop and						Assignment 3,	
Extend objects						Midterm 2	
in Object			X		73	(Q 1, 3)	
Oriented						Final	
Programming						(Q 2)	
Apply						Assignment 4,	
knowledge						Midterm 2	
obtained in			X		77	(Q 6)	
learning a new					• •	Final	
programming						(Q 1, 4, 6)	
language						(=, :, :, •)	

Term: Fall 2016			Instructor: Mohsen Amini Salehi			
Outcome: Be pr	oficient in m	ore than one p	rogramming la	anguage on m	ore than one	computing
platform				_		
Performance	1	2 Developing	3 Davidanad	4 Evennology	SCORE	How
Criteria	Amateur	Developing	Developed	Exemplary		Measured
Explain						
different	V				0	Midterm 1
programming	X				6	(Q 1 - 2),
languages						
paradigms						
Develop						Assignment 1,
programs in						Midterm 1
functional	X				48	(Q 3 - 5),
programming						Final
language						(Q 5)
paradigm						(' /
Develop						Assignment 2,
programs in						Midterm 2
logical			X		79	(Q 2, 4, 5),
programming						Final
paradigm						(Q 3)
Develop and						Assignment 3,
Extend objects						Midterm 2
in Object		X			63	(Q 1, 3)
Oriented						Final
Programming						(Q 2)
Apply						A a a i ano res e ret. 4
knowledge						Assignment 4, Midterm 2
obtained in		X			65	(Q 6)
learning a new		^			65	Final
programming						(Q 1, 4, 6)
language						(\infty 1, \pi, 0)