Department of Electrical Engineering Mid – Term Assignment Spring 2020 Date: 13/04/2020

Course Details

Course Title:	Programming Fundamentals	Module:	02
Instructor:	Engr Muhammad Waqas	Total Marks: _	30

Student Details

Name:

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Write a program in python where you input two integer values from user and Marks 5 Q1 (a) determine if the first integer is the multiple of the second integer. CLO 1 Write a program in python for a shopping mall to determine if the customer has Marks 5 (b) exceeded the credit limit on a charge account. CLO 1 Program should input the following facts in five variables 1. Account number 2. Balance at the beginning of month (Beginning balance) 3. total of all items charged by customer this month (charges) 4. total of all credits (credits) 5. allowed credit limit Calculate the new balance New balance = Beginning balance + charges – credits Your program must determine if the new balance exceeds the allowed credit limit. If credit limit is exceeded then program should display the message "Credit Limit exceeded." Q2 1. Steps that involve precise sequence to solve a problem is called Marks (a) 14 a. Statement b. Program CLO 1 c. Utility d. Routine 2. In an if structure statements are executed only, b. When it contain arithmetic a. When the condition is false operators c. When it contain logical operators d. When the condition is true

		3. Which of the following can not be a variable name?	
		a. Area barea	
		c. 10area d. area2	
		4. Which loop process is best when the number of iterations is known?	
		a. for b. while	
		c. again d. all looping processes require that the iterations be known	
		5. Which special character is in the end of a string to indicate the end?	
		1. new line 2. tab	
		3. null 4. carriage return	
		6. A total of bytes are occupied by the following variable.	
		txt = "programming fundamentals"	
		7. Commenting the code	
		a. Makes a program easy to understand for others.b. Make programs heavy, i.e. more space is needed for executable.	
		c. Makes it difficult to compile d. All of the given options	
Q3	(a)	 Write a program in python that will create and display the following series in the output using the formula 2x² – 3x: 65, 44, 27, 14, 5, 0, -1, 2, 9, 20 	Marks 2 CLO 1
	(b)	You have the following python code, draw the flow chart of the whole code	Marks 3
		numbers = range(10,20)	CLO 1
		sum = 0	
		for i in numbers:	
		sum = sum + i	
		print("Total Sum = ", sum)	

Q1 PAR T A	num1= input("Enter first integer: ") num2= input("Enter second integer: ") output= int(num1) % int(num2)
	if output==0 : print("First integer is multiple of the second") else : print("first integer is not multiple of second")
Q1	acc=input("Enter account number":)
part	bal=input("Enter balance at the beginning of month ":)
b	charges=input("Enter total of all items charged by customer this month ":)

	credits=input("Enter total of all credits":)
	allowed=input("Enter allowed credit limit ":)
	new_bal=bal+charges-credits
	if new_bal>allowed :
	print("Credit limit exceeds")
	else :
	print("Your new balance is",new_bal)
Q2	8. Steps that involve precise sequence to solve a problem is called
	e. Statement (f.) Program
	g. Utility h. Routine
	9. In an if structure statements are executed only,
	e. When the condition is false f. When it contain arithmetic
	operators
	g. When it contain logical operators (b) When the condition is true
	10. Which of the following can not be a variable name?
	e. Area farea
	g 10area h. area2
l	11. Which loop process is best when the number of iterations is known?
I	e for f. while
l	g. again h. all looping processes require that
	the iterations be known
	12. Which special character is in the end of a string to indicate the end?
	5. new line 6. tab
	7 null 8. carriage return
	13. A total of22 bytes are occupied by the following variable.
	txt = "programming fundamentals"
	14. Commenting the code
	Makes a program easy to f. Make programs heavy, i.e. more
	understand for others.
	g. Makes it difficult to compile h. All of the given options
Q3	numbers[-5,-4,-3,-2,-1,0,1,2,3,4]
-	for i in numbers
part	
а	output=2*(i*i)-3*i
	Print("series is",output)
Q3	
part	
b	
	Start
	ŧ
	numbers=range(10,20)
	sum=0
	false
	false for i in numbers
	for i in numbers
	for i in numbers true
	for i in numbers
	for i in numbers true

