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

Course Details

Course Title:	Programming Fundamentals	Module:	02
Instructor:	Sir Waqas	Total Marks:	30

Student Details

Name:	Muhammad Faizan	Student ID:	16046
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(a)	Write a program in python where you input two integer values from user and determine if the	Marks 5								
		CLO 1								
	first integer is the multiple of the second integer.									
	secondrio – m(mpu(Ener your mst rumber.))									
if (firstNo % secondNo) == 0:										
print('First Number is the multiple of Second Number')										
else:										
print('First Number is not the multiple of Second Number')										
(1-)	Weite a grant in grate of family and an income it to determine if the surface of the surface of the	Marlas 5								
(b)		Marks 5 CLO 1								
	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										
						1 0				
						mint is exceeded then program should display the message "Credit Limit exceeded.				
	Ans:-									
<pre>accountNo = int(input("Enter Account Number: ")) beginningBalance = int(input("Enter Balance in Beginning of month: ")) charges = int(input("Enter Charges: ")) credits = int(input("Enter Credits: ")) creditLimit = int(input("Enter Credit Limits: "))</pre>										
					new Datance – (beginning Datance + enarges) - creats					
					if newBalance > creditLimit:					
					print('Credit Limit exceeded!')					
				(a)	1. Steps that involve precise sequence to solve a problem is called	Marks 14				
					a. Statement b. Program	CLO 1				
	•									
	1									
3. Which of the following can not be a variable name? a. Area barea										
	a Area b area									
		else: print('First Number is not the multiple of Second Number') (b) Write a program in python for a shopping mall to determine if the customer has exceeded the credit limit on a charge account. Program should input the following facts in five variables 1. 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." Ans:- accountNo = int(input("Enter Account Number: ")) beginningBalance = int(input("Enter Charges: ")) credits = int(input("Enter Credits: ")) credits = int(input("Enter Credits: ")) credits: = int(input("Enter Credit Limits: ")) newBalance > creditLimit: print(Credit Limit exceeded!) (a) 1. Steps that involve precise sequence to solve a problem is called a. Statement b. Program c. Utility d. Routine 2. In an if structure statements are execu								

		4 Which loop process is best when the number of iterations is known?			
		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 strip	•		
		a. new line b. tab			
		c. null	d. 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	b. Make programs heavy, i.e. more		
		understand for others.	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 di		Marks 2	
Q3.	(u)	the formula $2x^2 - 3x$:	spiny the following series in the output using	CLO 1	
		65, 44, 27, 14, 5, 0, -1, 2, 9, 20			
		05, 44, 27, 14, 5, 0, -1, 2, 9, 20			
		Ans:	7]		
		values = $[6.5, 5.5, 4.5, 3.5, 2.5, 1.5, 0.5, -1.5, -2.$	5]		
		seq = []			
		for val in values:			
		$formula = int((2^{*}(val^{*}2)) - 3^{*}val)$			
		seq.append(formula)			
		seq			
	(b)	1		Marks 3	
		numbers = $range(10,20)$		CLO 1	
		sum = 0			
		for i in numbers:			
		sum = sum + i			
		print("Total Sum = ", sum)			
		print(rotar buil = ', suil)			
		Ans:			
			$20 = 10 \pm 20 = 10 \pm 11 \pm 12 \pm 14 = 20$		
		numbers = range(10,20) # Number Represent values from 10 to $20 ==> 10,11,12,13,14,20$			
		sum = 0 # Sum initially hold value 0			
		for i in numbers: #Loop will iterate from values 10 to 20 ==> i =10, i=11, i=12 i =20			
		sum = sum + i # It will sum the numbers the ith value			
		print("Total Sum = ", sum) # It will print the sum of al	1 the numbers between 10 to 20 and that is 145		