

Department of Electrical Engineering
Mid - Term Assignment Spring 2020

Date: 13/04/2020

Course Details

Course Title: <u>Programming Fundamentals</u>	Module: <u>02</u>
Instructor: <u>Engr Muhammad Waqas</u>	Total Marks: <u>30</u>

Student Details

Name: <u>Saheeb Ul Hassan</u>	Student ID: <u>16318</u>
--------------------------------------	---------------------------------

Q1	(a)	Write a program in python where you input two integer values from user and determine if the first integer is the multiple of the second integer.	Marks 5				
			CLO 1				
	(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 <ol style="list-style-type: none"> 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.”	Marks 5				
			CLO 1				
Q2	(a)	1. Steps that involve precise sequence to solve a problem is called <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a. Statement</td> <td style="width: 50%;">b. Program</td> </tr> <tr> <td>c. Utility</td> <td>d. Routine</td> </tr> </table>	a. Statement	b. Program	c. Utility	d. Routine	Marks 14
		a. Statement	b. Program				
c. Utility	d. Routine						
		2. In an if structure statements are executed only, <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a. When the condition is false</td> <td style="width: 50%;">b. When it contain arithmetic operators</td> </tr> <tr> <td>c. When it contain logical operators</td> <td>d. When the condition is true</td> </tr> </table>	a. When the condition is false	b. When it contain arithmetic operators	c. When it contain logical operators	d. When the condition is true	CLO 1
a. When the condition is false	b. When it contain arithmetic operators						
c. When it contain logical operators	d. When the condition is true						


```

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 h. When the condition is true
10. Which of the following can not be a variable name?
e. Area f. _area
 g. 10area h. area2
11. Which loop process is best when the number of iterations is known?
 e. for f. while
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 of ___22___ bytes are occupied by the following variable.
txt = "programming fundamentals"
14. Commenting the code _____
 e. Makes a program easy to understand for others. f. Make programs heavy, i.e. more space is needed for executable.
g. Makes it difficult to compile h. All of the given options

Q3 part a

```

numbers=[-5,-4,-3,-2,-1,0,1,2,3,4]
for i in numbers
output=2*(i*i)-3*i
Print("series is",output)

```



