

**Department of Electrical Engineering**  
**Mid – Term Assignment Spring 2020**

**Date: 13/04/2020**

**Course Details**

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

**Student Details**

<b>Name:</b> <u>Muhammad Faizan</u>	<b>Student ID:</b> <u>16046</u>
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Q1.	(a)	<p>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.</p> <p><b>Ans:-</b>  <pre> firstNo = int(input("Enter your first Number: ")) secondNo = int(input("Enter your first Number: "))  if (firstNo % secondNo) == 0:     print('First Number is the multiple of Second Number') else:     print('First Number is not the multiple of Second Number')</pre> </p>	Marks 5 CLO 1												
	(b)	<p>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</p> <ol style="list-style-type: none"> <li>1. Account number</li> <li>2. Balance at the beginning of month (Beginning balance)</li> <li>3. total of all items charged by customer this month (charges)</li> <li>4. total of all credits (credits)</li> <li>5. allowed credit limit</li> </ol> <p>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.”</p> <p><b>Ans:-</b>  <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: "))  newBalance = (beginningBalance + charges) - credits  if newBalance &gt; creditLimit:     print('Credit Limit exceeded!')</pre> </p>	Marks 5 CLO 1												
Q2.	(a)	<ol style="list-style-type: none"> <li>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. <b>Program</b></td> </tr> <tr> <td>c. Utility</td> <td>d. Routine</td> </tr> </table> </li> <li>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. <b>When the condition is true</b></td> </tr> </table> </li> <li>3. Which of the following can not be a variable name?                             <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a. Area</td> <td style="width: 50%;">b. <u>area</u></td> </tr> <tr> <td>c. <b>10area</b></td> <td>d. area2</td> </tr> </table> </li> </ol>	a. Statement	b. <b>Program</b>	c. Utility	d. Routine	a. When the condition is false	b. When it contain arithmetic operators	c. When it contain logical operators	d. <b>When the condition is true</b>	a. Area	b. <u>area</u>	c. <b>10area</b>	d. area2	Marks 14 CLO 1
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