

## Computer Programming I ( LAB - 3 )

| Program Name   | Description  |
|--|--|
| BSLab3a.java   | Using a <b>for</b> loop write a program that print to the screen the 7 times table |
| Output   |  |
| <pre>7 x 0 = 0 7 x 1 = 7 7 x 2 = 14 7 x 3 = 21 7 x 4 = 28 7 x 5 = 35 7 x 6 = 42 7 x 7 = 49 7 x 8 = 56 7 x 9 = 63 7 x 10 = 70</pre> |  |

| Program Name  | Description   |
|---|---|
| BSLab3b.java  | Using a <b>for</b> , a <b>while</b> and a <b>do-while</b> loop write a program that prints to the screen the numbers from -3 to 3 in descending order |
| Output  |   |
| <pre>--- For Loop --- 3 2 1 0 -1 -2 -3 --- While Loop --- 3 2 1 0 -1 -2 -3 --- Do-while Loop --- 3 2 1 0 -1 -2 -3</pre> |   |

## Computer Programming I ( LAB - 3 )

| Program Name   | Description   |
|--|---|
| BSLab3c.java   | Using a <b>do-while</b> loop, write a program that prints the numbers from 3 to 13 and if the number is an odd or even number<br><br><b>HINT:</b> Use modulo to find out if a number is odd or even !!!<br><br><b>NOTE:</b> The totals are calculated, NOT hardcoded ( <i>fixed</i> ) !!! |
| Output   |   |
| <pre>3 - Odd 4 - Even 5 - Odd 6 - Even 7 - Odd 8 - Even 9 - Odd 10 - Even 11 - Odd 12 - Even 13 - Odd  Number of odd numbers.: 6 Number of even numbers: 5</pre> |   |

| Program Name  | Description   |
|---|---|
| BSLab3d.java  | Using while loop, write a program that outputs the sequence below |
| Output  |   |
| <pre>1 - * 2 - ** 3 - *** 4 - **** 5 - ***** 6 - ***** 7 - ***** 8 - ***** 9 - *****</pre> <p><b>NOTE:</b> Both the numbers and the pattern of star should be printed</p> |   |

## Sample Exam Question

***Questions A and B are related to week 1 and 2***

**A. Using full Java code,** write a Java program that prints the following to the command line:

```
Java is  
AMAZING
```

**B.** Write Java statement that creates, populates **4 variables of different types** and displays them to the command line on **different lines**.

***Questions C and D are related to week 4***

**C. What is the output of the following code:**

```
int varNum = 5;  
do{  
    System.out.println( "Number is: " + ( varNum - ( 3 * 5 ) ));  
  
} while ( varNum != 5 );
```

**D. Identify and briefly explain any error(s) which you can see that could prevent the code from compiling. ( Assume that the class and main method have been correctly declared )**

```
int Laps = 0;  
while ( laps < 10 ) [  
    system.out.prin("Lap #:" Laps)  
    Laps++;  
}
```

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