

Computer Programming I (LAB - 6)

Program Name	Description
BSLab6a.java	Write a java program that prints the following messages to the screen
Output	
Java is a computer programming language that is: <ul style="list-style-type: none">- Concurrent,- Class-based,- Object-oriented, and- Specifically designed to have as few implementation dependencies as possible.	

Program Name	Description
BSLab6b.java	Write a Java program which: Defines two integer variables (varBase & varHeight). Give each variable a value. Displays the following messages:
Output	
Base...: <Value-of-varBase> Height: <Value-of-varHeight> Area of the triangle is: <Result-of-calculation> NOTE: The formula to calculate the area of a triangle is: $\text{Area} = \frac{\text{Height} \times \text{Base}}{2}$	

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Program Name	Description
BSLab6c.java	<p>Write a Java program that prints the month of the year based on a number.</p> <p>The program should validate the content of a variable and display the month of the year based on the value of the variable, the output should be:</p>
Output	
<p>Month: <value-of-the-variable> - <month-of-the-year></p> <p>For example:</p> <p style="padding-left: 40px;">If the value of the variable is 9, then this should be the output:</p> <p style="padding-left: 80px;">Month: 9 - September</p> <p>If the value of the variable is not a valid month, the program should display:</p> <p style="padding-left: 40px;">NOT A VALID MONTH</p>	

Program Name	Description
BSLab6d.java	<p>Write a Java program that displays the name of a season based on a month.</p> <p>The program should validate the content of a variable, and the season associated with the month, based on the following table:</p> <p style="padding-left: 40px;">Summer: December to February. Autumn: March to May. Winter: June to August. Spring: September to November.</p> <p>The output should be:</p>
Output	
<p>Season: <Name-of-the-season></p> <p>For example:</p> <p style="padding-left: 40px;">If the value of the variable is 9, then this should be the output:</p> <p style="padding-left: 80px;">Season: Spring</p> <p>If the value of the variable is not a valid month, the program should display:</p> <p style="padding-left: 40px;">NOT A VALID MONTH</p>	

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Program Name	Description
BSLab6e.java	Using a while loop, write a Java program which displays the following pattern:
Output	
<pre>50 49 48 47 46 45 44 43 42 41 40 -- 38 37 36 35 34 33 32 31 30 29 28 27 -- 25 24 23 22 21 20 19 18 17 16 15 14 -- 12 11</pre> <p>NOTE: The -- substitute a number divisible by 13</p>	

Program Name	Description
BSLab6f.java	Using only one for loop, write a Java program which counts how many numbers are divisible by 10, 11, 12, 13, 14 and 15 between 10 and 500, and displays the result to the screen.
Output	
<pre>Divisible by 10: <Qty-of-Numbers-divisible-by-10> Divisible by 11: <Qty-of-Numbers-divisible-by-11> Divisible by 12: <Qty-of-Numbers-divisible-by-12> Divisible by 13: <Qty-of-Numbers-divisible-by-13> Divisible by 14: <Qty-of-Numbers-divisible-by-14> Divisible by 15: <Qty-of-Numbers-divisible-by-15></pre>	

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Program Name	Description
BSLab6g.java	<p>Write a program that creates, and stores 10 numbers. Each element of the array should be populated with a random number between 256 and 512 (inclusive). The program should calculate the sum and the average of the elements. It should also produce the following output:</p> <p>Note: The program should use only one loop to perform both tasks</p>
Output	
<pre>496 349 407 338 287 485 418 432 277 313 Sum: 3802 Avg: 380 NOTE: The numbers above are examples. Your program will probably produce a different output.</pre>	

Program Name	Description
BSLab6h.java	<p>Write a Java program which:</p> <ol style="list-style-type: none">1. Defines two variables, populates them with random numbers between 1 and 50, and displays them to the screen;2. Defines a list of five numbers, populates them with random numbers between 1 and 50, and displays them to the screen;3. Displays a message to the screen based on the following rules: <p>If both numbers are in the list then displays: "You won the lottery !".</p> <p>Else If only one number is in the list then displays: "Nearly there !".</p> <p>Otherwise, displays: "Sorry, try again !".</p> <p>Below is an example of the output of the program</p>
Output	
<pre>1st Number: 27 2nd Number: 9 List...: 34 25 9 49 11 Result: Nearly there !</pre>	