

Hands-on Assignments for Flow Control Statements

Complete the below hands-on assignments before proceeding with the next Topic

No.	Hands-on Assignment	Topics Covered	Status
1	Write a program to check if a given integer number is Positive, Negative, or Zero.	If Statement	<input type="checkbox"/>
2	Write a program to check if a given integer number is odd or even.	If Statement	<input type="checkbox"/>
3	<p>Write a program to check if the program has received command line arguments or not.</p> <p>If the program has not received arguments then print "No Values", else print all the values in a single line separated by , (comma)</p> <p>Example1) java Example O/P: No values</p> <p>Example2) java Example Mumbai Bangalore O/P: Mumbai,Bangalore</p> <p>[Hint: You can use length property of an array to check its length]</p>	If Statement	<input type="checkbox"/>
4	<p>Initialize two character variables in a program and display the characters in alphabetical order.</p> <p>Example1) if the first character is 's' and second character is 'e' then the output should be e,s</p> <p>Example2) if the first character is 'a' and second character is 'e', then the output should be a,e</p>	If Statement	<input type="checkbox"/>
5	<p>Initialize a character variable in a program and print 'Alphabet' if the initialized value is an alphabet,</p> <p>print 'Digit' if the initialized value is a number, and</p> <p>print 'Special Character', if the initialized value is anything else.</p>	If Statement	<input type="checkbox"/>
6	<p>Write a program to accept gender ("Male" or "Female") and age from command line arguments and print the percentage of interest based on the given conditions.</p> <p>If the gender is 'Female' and age is between 1 and 58, the percentage of interest is 8.2%.</p> <p>If the gender is 'Female' and age is between 59 and 100, the percentage of interest is 9.2%.</p>	If Statement	<input type="checkbox"/>

	<p>If the gender is 'Male' and age is between 1 and 58, the percentage of interest is 8.4%.</p> <p>If the gender is 'Male' and age is between 59 and 100, the percentage of interest is 10.5%.</p>		
7	<p>Initialize a character variable with an alphabet in a program.</p> <p>If the character value is in lowercase, the output should be displayed in uppercase in the following format.</p> <p>Example1) i/p:a o/p:a->A</p> <p>If the character value is in uppercase, the output should be displayed in lowercase in the following format.</p> <p>Example2) i/p:A o/p:A->a</p>	If Statement	<input type="checkbox"/>
8	<p>Write a program to receive a color code from the user (an Alphabet).</p> <p>The program should then print the color name, based on the color code given.</p> <p>The following are the color codes and their corresponding color names. R->Red, B->Blue, G->Green, O->Orange, Y->Yellow, W->White.</p> <p>If color code provided by the user is not valid then print "Invalid Code".</p>	Switch Statement	<input type="checkbox"/>
9	<p>Write a program to receive a number and print the corresponding month name.</p> <p>Example1) C:\>java Sample 12 O/P Expected : December</p> <p>Example2) C:\>java Sample O/P Expected : Please enter the month in numbers</p> <p>Example3) C:\>java Sample 15</p>	Switch Statement	<input type="checkbox"/>

	O/P Expected : Invalid month		
10	Write a program to print numbers from 1 to 10 in a single row with one tab space.	For Loop	<input type="checkbox"/>
11	Write a program to print even numbers between 23 and 57. Each number should be printed in a separate row.	For Loop	<input type="checkbox"/>
12	Write a program to check if a given number is prime or not.	For Loop	<input type="checkbox"/>
13	Write a program to print prime numbers between 10 and 99.	For Loop	<input type="checkbox"/>
14	<p>Write a Java program to find if the given number is prime or not.</p> <p>Example1) C:\>java Sample O/P: Please enter an integer number</p> <p>Example2) C:\>java Sample 1 O/P:1 is neither prime nor composite</p> <p>Example3) C:\>java Sample 0 O/P: 0 is neither prime nor composite</p> <p>Example4) C:\>java Sample 10 O/P: 10 is not a prime number</p> <p>Example5) C:\>java Sample 7 O/P : 7 is a prime number</p>	For Loop	<input type="checkbox"/>
15	<p>Write a program to print the sum of all the digits of a given number.</p> <p>Example1) I/P:1234 O/P:10</p>	For Loop	<input type="checkbox"/>
16	<p>Write a program to print * in Floyds format (using for and while loop)</p> <pre>* * * * * *</pre> <p>Example1) C:\>java Sample O/P: Please enter an integer number</p> <p>Example2) C:\>java Sample 3 O/P :</p> <pre>* * * * * *</pre>	For Loop	<input type="checkbox"/>

17	<p>Write a program to reverse a given number and print</p> <p>Example1) I/P: 1234 O/P:4321</p> <p>Example2) I/P:1004 O/P:4001</p>	While Loop	<input type="checkbox"/>
18	<p>Write a Java program to find if the given number is palindrome or not</p> <p>Example1) C:\>java Sample 110011 O/P: 110011 is a palindrome</p> <p>Example2) C:\>java Sample 1234 O/P: 1234 is not a palindrome</p>	While Loop	<input type="checkbox"/>
19	<p>Write a program to print first 5 values which are divisible by 2, 3, and 5.</p>	While Loop	<input type="checkbox"/>