

Flow Control Statements

1

Write a program to check if a given number is Positive, Negative, or Zero.

Topics Covered: If Statement

2

Write a program to check if a given number is odd or even.

Topics Covered: If Statement

3

Write a program to check if the program has received command line arguments or not. If the program has not received the values then print "No Values", else print all the values in a single line separated by ,(comma).

Eg1) java Example

O/P: No values

Eg2) java Example Mumbai Bangalore

O/P: Mumbai,Bangalore

[Note: You can use length property of an array to check its length

Topics Covered: If Statement

4

Initialize two character variables in a program and display the characters in alphabetical order.

Eg1) if first character is s and second is e

O/P: e,s

Eg2) if first character is a and second is e

O/P:a,e

Topics Covered: If Statement

5

Initialize a character variable in a program and if the value is alphabet then print "Alphabet" if it's a number then print "Digit" and for other characters print "Special Character"

If Statement

6

Write a program to accept gender ("Male" or "Female") and age (1-120) from command line arguments and print the percentage of interest based on the given conditions.

```
Interest == 8.2%
    Gender ==> Female
    Age  ==>1 to 58
Interest == 7.6%
    Gender ==> Female
    Age  ==>59 -120
Interest == 9.2%
    Gender ==> Male
    Age  ==>1-60
Interest == 8.3%
    Gender ==> Male
    Age  ==>61-120
```

Topics Covered: If Statement

7

Write a program to convert from upper case to lower case and vice versa of an alphabet and print the old character and new character as shown in example (Ex: a->A, M->m).

Topics Covered: If Statement

8

Write a program to print the color name, based on color code. If color code is not valid then print "Invalid Code". R->Red, B->Blue, G->Green, O->Orange, Y->Yellow, W->White.

Topics Covered: Switch Statement

9

Write a program to print month in words, based on input month in numbers

Example1:

```
C:\>java Sample 12
O/P Expected : December
```

Example2:

```
C:\>java Sample
O/P Expected : Please enter the month in numbers
```

Example3:

```
C:\>java Sample 15
O/P Expected : Invalid month
```

Topics Covered: Switch Statement

10

Write a program to print numbers from 1 to 10 in a single row with one tab space.

Topics Covered: For Loop

11

Write a program to print even numbers between 23 and 57, each number should be printed in a separate row.

Topics Covered: For Loop

12

Write a program to check if a given number is prime or not

Topics Covered: For Loop

13

Write a program to print prime numbers between 10 and 99.

Topics Covered: For Loop

14

Write a Java program to find if the given number is prime or not.

Example1:

C:\>java Sample
O/P Expected : Please enter an integer number

Example2:

C:\>java Sample 1
O/P Expected : 1 is neither prime nor composite

Example3:

C:\>java Sample 0
O/P Expected : 0 is neither prime nor composite

Example4:

C:\>java Sample 10
O/P Expected : 10 is not a prime number

Example5:

C:\>java Sample 7
O/P Expected : 7 is a prime number

Topics Covered: For Loop

15

Write a program to add all the values in a given number and print. Ex: 1234->10

Topics Covered: For Loop

16

Write a program to print * in Floyds format (using for and while loop)

```
*  
* *  
* * *
```

Example1:

```
C:\>java Sample  
O/P Expected : Please enter an integer number
```

Example1:

```
C:\>java Sample 3  
O/P Expected :  
*  
* *  
* * *
```

Topics Covered: For Loop

17

Write a program to reverse a given number and print

Eg1)

I/P: 1234

O/P:4321

Eg2)

I/P:1004

O/P:4001

Topics Covered: While Loop

18

Write a Java program to find if the given number is palindrome or not

Example1:

```
C:\>java Sample 110011  
O/P Expected : 110011 is a palindrome
```

Example2:

```
C:\>java Sample 1234  
O/P Expected : 1234 is not a palindrome
```

Topics Covered: While Loop

19

Write a program to print first 5 values which are divisible by 2, 3, and 5.

Topics Covered: While Loop

20

Write a program that displays a menu with options 1. Add 2. Sub

Based on the options chosen, read 2 numbers and perform the relevant operation. After performing the operation, the program should ask the user if he wants to continue. If the user presses y or Y, then the program should continue displaying the menu else the program should terminate.

[Note: Use Scanner class, you can take help from the trainer regarding the same]

Topics Covered: Do While