

Web Engineering Lab 10

Submission Details:

Submit to: assignmentsubmission19@gmail.com

Deadline: **12th December 2020 till 11:59 PM**

Subject: **Web Lab 10**

Task 01:

Write a Java Program that will display the following information on the screen:

Welcome to JAVA

Java is a pure object-oriented programming language.

We can create application for almost all platforms in Java including:

- 1- Desktop Applications
- 2- Web Applications
- 3- Mobile Applications

Learning Java is fun.

Task 02:

Write a Java program that will ask user to enter “Movie” information on console. Once all information is entered, your program must display it on screen.

Sample Run:

Movie Name: **The Avengers Endgame**

Movie Genre: **Action**

Movie Year: **2019**

Movie length: **2.30**

Displaying data...

Name Entered: The Avengers Endgame

Genre Entered: Action

Year Entered: 2019

Length Entered: 2.30

Note: *Text in red is entered by the user...*

Task 03:

Write a program in java that saves an integral value in an Integer variable and Display whether it is positive or negative.

Task 04:

Write a Java program that creates an array of integers of size 10. Then input 10 values from the user in the array. Then create four functions in your program and pass the array to these functions to find sum, average, largest and smallest from the array. Your program must contain the following functions:

```
public int sum(int arr[]);  
public int average (int arr[]);  
public int largest (int arr[]);  
public int smallest (int arr[]);
```

Call each function one by one and display the values returned by the functions accordingly.

Sample Run:

Enter 10 numbers: 20 5 15 -2 60 40 26 90 85 9

Sum is: 348

Average is: 34.8

Largest is: 90

Smallest is: -2

Task 05:

The Caesar cipher is a basic encryption technique used by Julius Ceasar to securely communicate with his generals. Each letter is replaced by another letter N positions down the english alphabet. For example, for a rotation of 5, the letter 'c' would be replaced by an 'h'. In case of a 'z', the alphabet rotates and it is transformed into a 'd'.

Implement a decoder for the Caesar cipher where N = 5.

TIP: Use `code.toCharArray()` to get an array of characters.