



Green University of Bangladesh

Department of Computer Science and Engineering

Class Test-1

Course Code: CSE 202

Course Name: Object Oriented Programming Lab

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Remarks:

Problem Name: Java Program to Calculate Average Using Arrays

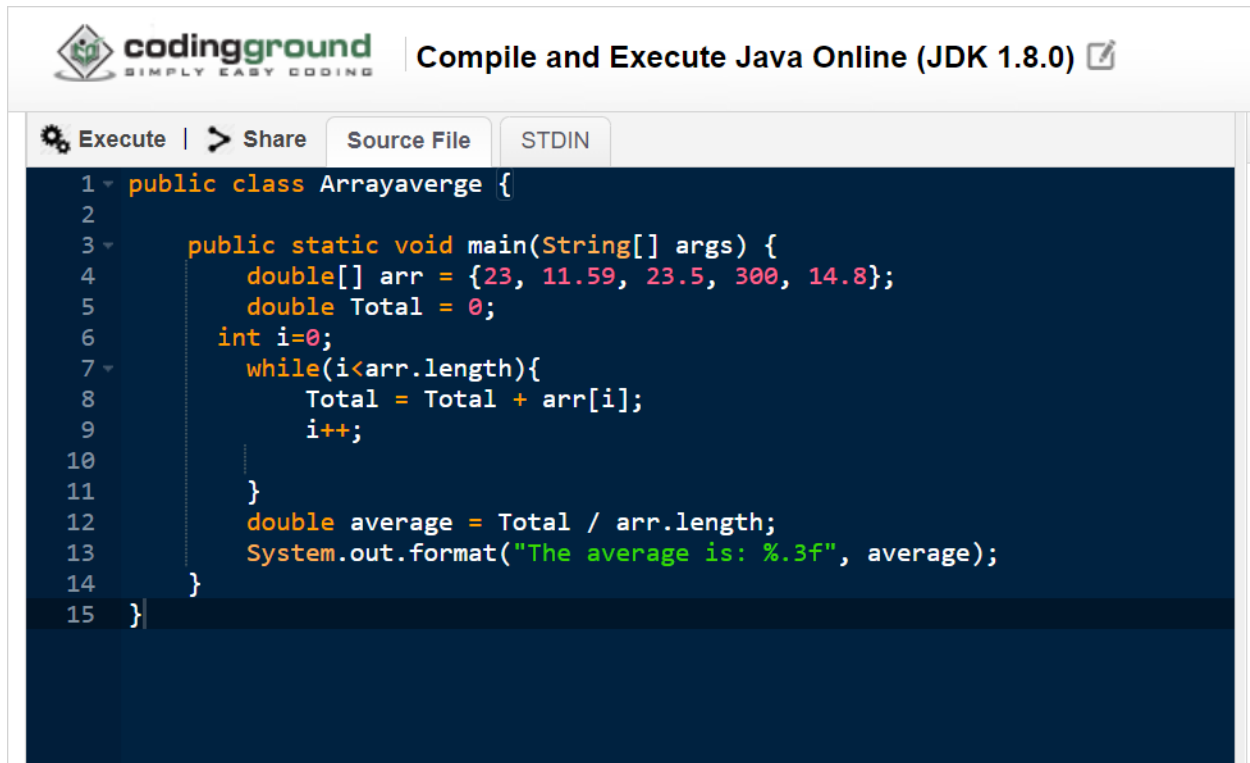
Objective:

1. This program help us to know about the basics of JAVA.
2. Easily we can understand using a array and loop how we can find out sum of number and average of this numbers.
3. We can observe how loops work in an object oriented programming.

Procedure:

1. Start.
2. Open NetBeans and create a new class.
3. Declare array
4. Initialize double Total = 0 and int i=0
5. Use while loop from i to arr.length
6. Divide the result of loop by arr.length
7. Print double average.
8. End.

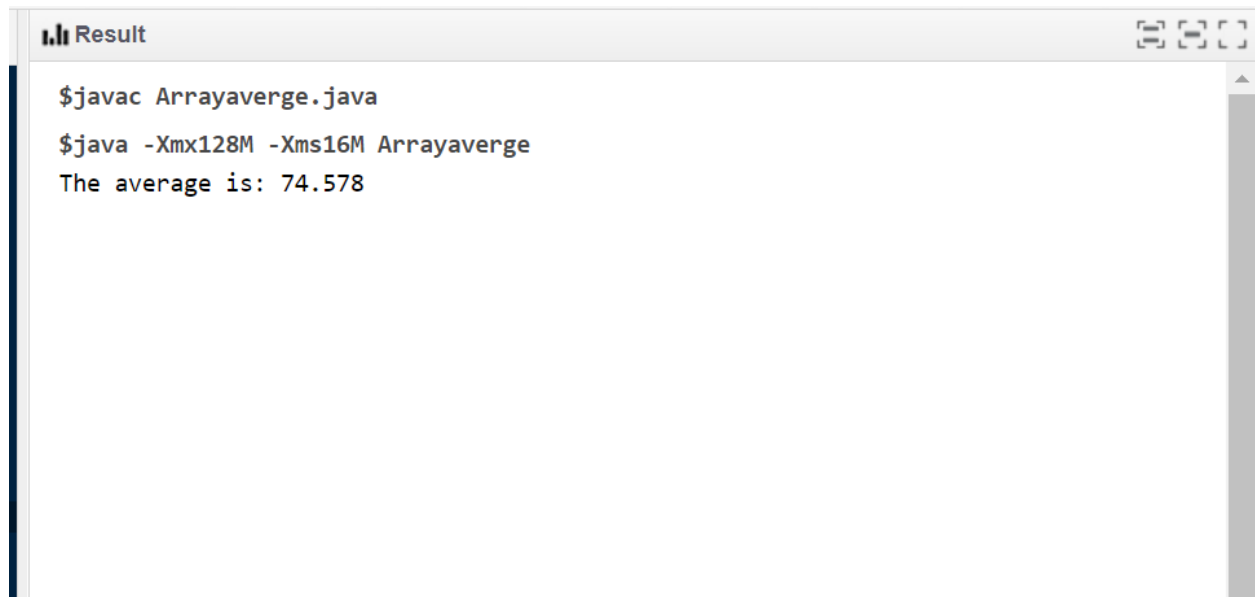
Program Code (input):



The screenshot shows the CodingGround online Java IDE interface. At the top, there is a logo for 'codingground' with the tagline 'SIMPLY EASY CODING' and a title bar that says 'Compile and Execute Java Online (JDK 1.8.0)'. Below the title bar, there are tabs for 'Execute', 'Share', 'Source File', and 'STDIN'. The 'Execute' tab is active, and the code editor displays the following Java code:

```
1 public class Arrayaverage {
2
3     public static void main(String[] args) {
4         double[] arr = {23, 11.59, 23.5, 300, 14.8};
5         double Total = 0;
6         int i=0;
7         while(i<arr.length){
8             Total = Total + arr[i];
9             i++;
10        }
11        double average = Total / arr.length;
12        System.out.format("The average is: %.3f", average);
13    }
14 }
15 }
```

Output:



```
Result
$javac Arrayaverage.java
$java -Xmx128M -Xms16M Arrayaverage
The average is: 74.578
```

Discussion:

By this program we can learn about some basic functions of object oriented programming. We also learnt how we can get input from user and print them and using for loop we get input and finally find sum and average of those numbers and printed the result .