Object Oriented Programming Lab – 06

Course Code: CSE215

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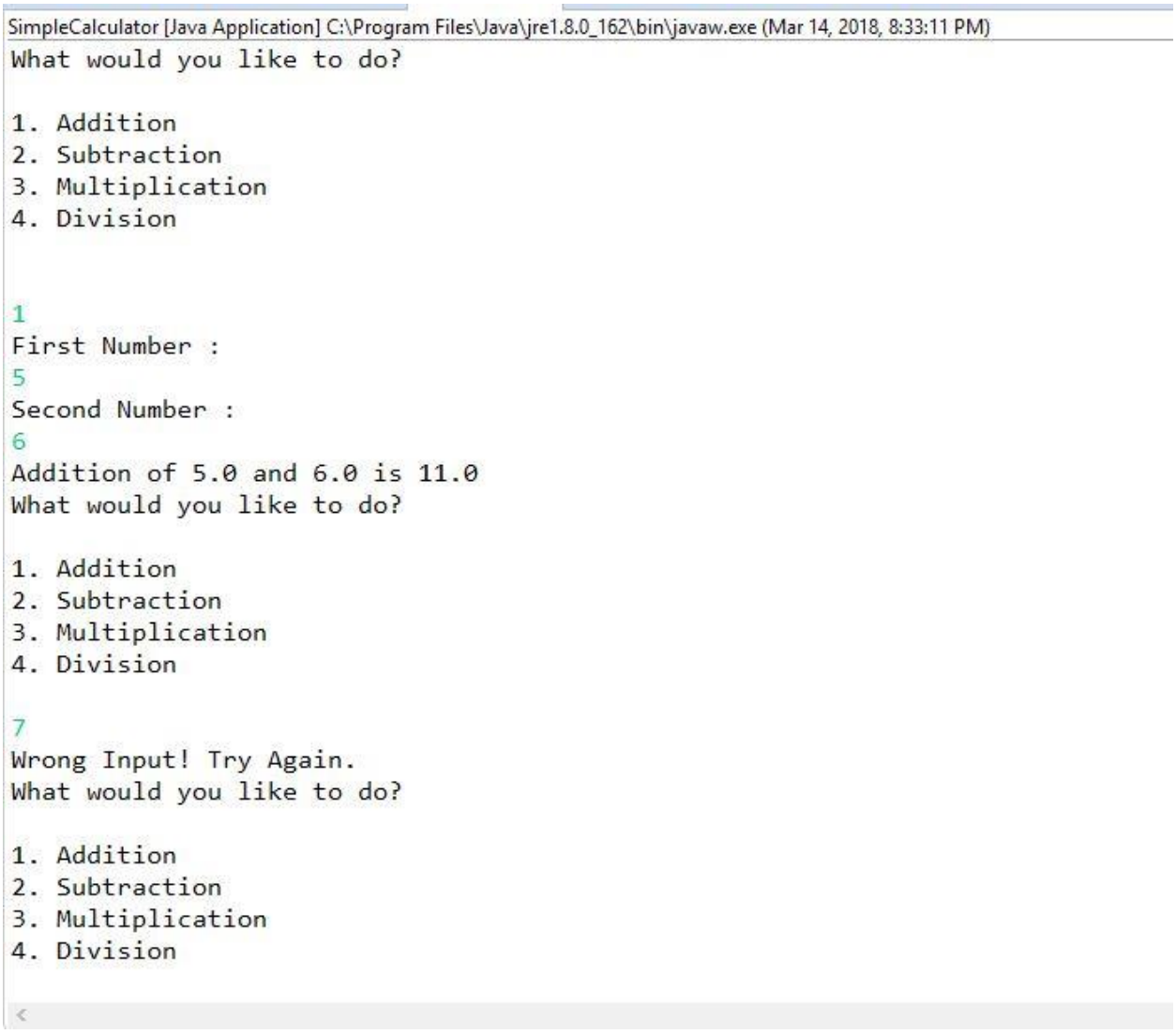
Problem 1: Simple Calculator

Code:

```
package com.example.hridoy;

import java.util.Scanner;

public class SimpleCalculator {

	public void addition(double number1, double number2) {
		double result = number1 + number2;
		 System.out.println("Addition of " + number1 + " and " +
number2 + " is " + result);
	}

	public void subtraction(double number1, double number2) {
		double result = number1 - number2;
		System.out.println("Subtraction of " + number1 + " and " +
number2 + " is " + result);
	}

	public void multiplication(double number1, double number2) {
		double result = number1 * number2;
		System.out.println("Multiplication of " + number1 + " and "
+ number2 + " is " + result);
	}

	public void division(double number1, double number2) {
		double result = number1 / number2;
		System.out.println("Division of " + number1 + " and " +
number2 + " is " + result);
	}

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		SimpleCalculator test1 = new SimpleCalculator();

		 Scanner input = new Scanner(System.in);

		 double number1, number2;
		 int choice;
		 while(true) {
```

```
                System.out.println("What would you like to do?\n");
                System.out.println("1. Addition\n2. Subtraction\n3.
Multiplication\n4. Division\n");
                choice = input.nextInt();
                if(choice == 1) {
                      System.out.println("First Number : ");
                      number1 = input.nextDouble();
                      System.out.println("Second Number : ");
                      number2 = input.nextDouble();
                      test1.addition(number1, number2);
                }

                else if(choice == 2) {
                      System.out.println("First Number : ");
                      number1 = input.nextDouble();
                      System.out.println("Second Number : ");
                      number2 = input.nextDouble();
                      test1.subtraction(number1, number2);
                }

                else if(choice == 3) {
                      System.out.println("First Number : ");
                      number1 = input.nextDouble();
                      System.out.println("Second Number : ");
                      number2 = input.nextDouble();
                      test1.multiplication(number1, number2);
                }

                else if(choice == 4) {
                      System.out.println("First Number : ");
                      number1 = input.nextDouble();
                      System.out.println("Second Number : ");
                      number2 = input.nextDouble();
                      test1.division(number1, number2);
                }

                else {
                      System.out.println("Wrong Input! Try Again.");
                }

          }

     }

}
```

Output:


SimpleCalculator [Java Application] C:\Program Files\Java\jre1.8.0_162\bin\javaw.exe (Mar 14, 2018, 8:33:11 PM)
What would you like to do?
1. Addition
2. Subtraction
3. Multiplication
4. Division
1
First Number :
5
Second Number :
6
Addition of 5.0 and 6.0 is 11.0
What would you like to do?
1. Addition
2. Subtraction
3. Multiplication
4. Division
7
Wrong Input! Try Again.
What would you like to do?
1. Addition
2. Subtraction
3. Multiplication
4. Division