OBJECT ORIENTED PROGRAMMING LAB

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Roll No: 17

Batch: S2 RMCA B

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Experiment No: CO4-2

Aim

Create an Arithmetic package that has classes and interfaces for the 4 basic arithmetic operations. Test the package by implementing all operations on two given numbers

Procedure:

Package

```
package Arithmetic;

 interface operations{

  public int add(int x,int y);

  public int sub(int x,int y);

  public int multi(int x,int y);

  public float div(int x,int y);

  }

 public class package_operations implements operations{

 public int add(int x,int y){

   return x+y;

 }

 public int sub(int x,int y){

    return x-y;

 }

 public int multi(int x,int y){
```

```
 return x*y;
  }
  public float div(int x,int y){
   return x/y;
  }
  }
```

Main Program

```
import Arithmetic.*;
public class main_operations {
    public static void main(String []args){
        package_operations Obj = new package_operations();
        System.out.println("After Addition:");
        System.out.println(Obj.add(10,2));
        System.out.println("After Subtraction:");
        System.out.println(Obj.sub(10,2));
        System.out.println("After Multiplication:");
        System.out.println(Obj.multi(10,2));
        System.out.println("After Division:");
        System.out.println(Obj.div(10,2));
    }
}
```

Output:

```
C:\Users\Student\Desktop\Manya S2\java\31-05-22>javac main_operations.java

C:\Users\Student\Desktop\Manya S2\java\31-05-22>java main_operations
After Addition:
12
After Subtraction:
8
After Multiplication:
20
After Division:
5.0
```