JAVA LAB EXPERIMENT NO: 06

NAME: KUNJ TRIVEDI

CLASS: SE9

BATCH: C

ROLL NO: 38

AIM: Program on User defined package.

PROBLEM STATEMENT: Complete the following:
1. Create a package named org.calculator
2. Create two classes in the package as
a. Arithmetic class containing methods add, subtract, multiply and divide
b. CalcPower class containing methods square and cube.
3. Finally compile the package and use it in a Demo class.

PROGRAM:

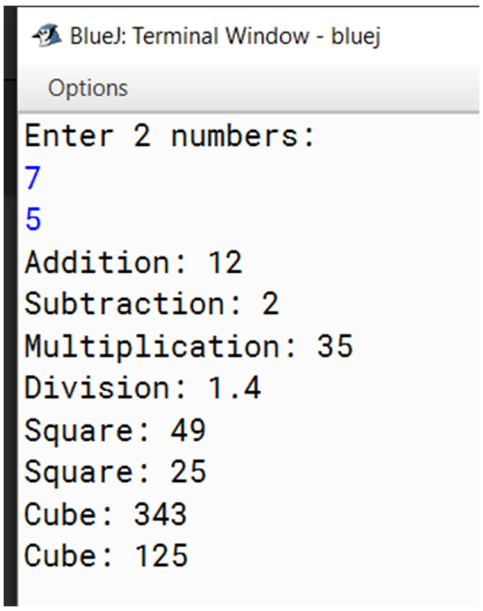
```
package org.calculator;
public class Arithmetic
{
   public int add(int x,int y)
   {
      return x+y;
   }
   public int subtract(int x,int y)
   {
      return x-y;
   }
   public int multiply(int x,int y)
   {
      return x*y;
   }
   public float divide(int x,int y)
   {
      return (float)x/y;
   }
}
```

```
package org.calculator;
public class calcPower
{
   public int square(int x)
   {
      return x*x;
```

```
    }
    public int cube(int x)
    {
        return x*x*x;
    }
}
```

```
import org.calculator.Arithmetic;
import org.calculator.calcPower;
import java.util.*;
class Demo
{
    Public static void main()
    {
        Scanner sc=new Scanner(System.in);
        Arithmetic a=new Arithmetic();
        calcPower c=new calcPower();
        System.out.println("Enter 2 numbers: ");
        int x=sc.nextInt();
        int y=sc.nextInt();
        System.out.println("Addition: "+a.add(x,y));
        System.out.println("Subtraction: "+a.subtract(x,y));
        System.out.println("Multiplication: "+a.multiply(x,y));
        System.out.println("Division: "+a.divide(x,y));
        System.out.println("Square: "+c.square(x));
        System.out.println("Square: "+c.square(y));
        System.out.println("Cube: "+c.cube(x));
        System.out.println("Cube: "+c.cube(y));
    }
}
```

OUTPUT:


BlueJ: Terminal Window - bluej
Options
Enter 2 numbers:
7
5
Addition: 12
Subtraction: 2
Multiplication: 35
Division: 1.4
Square: 49
Square: 25
Cube: 343
Cube: 125