OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 10

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Batch:RMCA B

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Aim

Area of different shapes using overloaded functions

Procedure

```
import java.util.Scanner;


class areaShapes{
   void area(int a){
      System.out.println("area of square is "+a*a);
   }
   void area(int a, int b){
      System.out.println("area of rectangle "+a*b);
   }
   void area(int length, int breadth, int height){
      System.out.println("Area of Cuboid
"+(2*(length*breadth)+2*(length*height)+2*(height*breadth)));


   }
}


public class Area1 {
   public static void main(String[] args) {
      int a,b,c;
      Scanner s= new Scanner(System.in);
      areaShapes obj=new areaShapes();
      System.out.println("enter the side of square");
```

```
        a= s.nextInt();
        obj.area(a);
        System.out.println("enter the length and breadth");
        a=s.nextInt();
        b=s.nextInt();
        obj.area(a,b);
        System.out.println("enter the length, breadth and height of a cuboid");
        a=s.nextInt();
        b=s.nextInt();
        c=s.nextInt();
        obj.area(a,b,c);
    }
}
```

Output Screenshot

```
C:\Users\Student\Documents\JAVA>javac Area1.java

C:\Users\Student\Documents\JAVA>java Area1
enter the side of square
2
area of square is 4
enter the length and breadth
2 3
area of rectangle 6
enter the length, breadth and height of a cuboid
2 3 4
Area of Cuboid 52
```