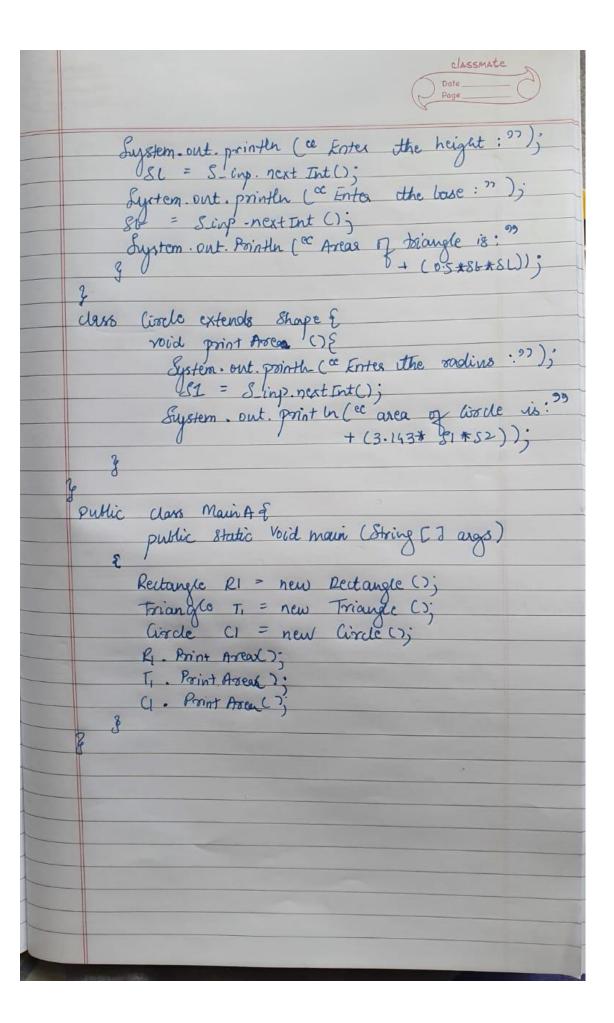


- Lat Exercises - 4 and 5 Develop a Java program to create an abstract class named shape that Contains 2 integers and an empty method named print prea (). Provide three Classes name Rectangle, Triangle and Circle such that each one of the classes Contains the method point Area & that prints the area of the given shape umpost Java. util. #; Class Shape & unt Sli You'd Print Aresa (){ Scanner 8-inp = new Scanner (System. in); class Rectarge extends Shape? System. out. println (ee Enter the length of St = S-inp.next Intl);

System. out. println (ee Enter the breadth of Restougher);

St = S-inp.nextIntl); void Print Area () { St = S-inp.nextInt();
System.out.println(ec the area of Pertangle
us 100 + (St \* sl.)); Class Triangle extends shape & Vold Print Arou () {



```
//Lab Exercise 4
import java.util.*;
class Shape{
  int SI;
  int Sb;
  void printArea(){
  }
  Scanner S_inp = new Scanner(System.in);
}
class Rectangle extends Shape{
  void printArea(){
    System.out.println("Enter the lenght of Rectangle");
    SI = S_inp.nextInt();
    System.out.println("Enter the breadth of Rectangle");
    Sb = S_inp.nextInt();
    System.out.println("The AREA of RECTANGLE is: "+ (Sb*SI));
  }
}
class Trinagle extends Shape{
  void printArea(){
    System.out.println("Enter the Height : ");
    SI = S_inp.nextFloat();
    System.out.println("Enter the Base : ");
    Sb = S_inp.nextInt();
```

```
System.out.println("The AREA of TRIANGLE is : " +(.5*Sb*Sl));
  }
}
class Circle extends Shape{
  void printArea(){
    System.out.println("Enter the Radius:");
    SI = S_inp.nextInt();
    System.out.println("The AREA of CIRCLE is: "+(3.143*SI*SI));
  }
}
public class MainA {
  public static void main(String[] args){
    Rectangle R1 = new Rectangle();
    Trinagle T1 = new Trinagle();
    Circle C1 = new Circle();
    R1.printArea();
    T1.printArea();
    C1.printArea();
  }
}
```

```
C:\Users\Samarth\Documents>java MainA
Enter the lenght of Rectangle
12
Enter the breadth of Rectangle
13
The AREA of RECTANGLE is : 156
Enter the Height:
3
The AREA of TRIANGLE is : 4.5
Enter the Radius:
3
The AREA of CIRCLE is : 28.2869999999995

C:\Users\Samarth\Documents>java MainA
Enter the lenght of Rectangle
13
Enter the breadth of Rectangle
14
Enter the breadth of Rectangle
15
Enter the Base :
2
Enter the Base :
2
The AREA of RECTANGLE is : 9
Enter the Height :
3
Enter the Radius : 10
Enter the Radius : 11
Enter the Radius : 12
Enter the Radius : 13
Enter the Radius : 14
Enter the Radius : 15
Enter the
```