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ANS 4:-
import java.util.Scanner;
abstract class shape{
    int a;
    int b;
    abstract void printArea();
}
class rectangle extends shape{
  Scanner sc=new Scanner(System.in);
  void printArea(){
    System.out.println("Enter the length of rectangle:");
    a=sc.nextInt();
    System.out.println("Enter the breadth of rectangle:");
    b=sc.nextInt();
    System.out.println("Area:"+a*b);
  }
}
class triangle extends shape{
  Scanner sc=new Scanner(System.in);
  void printArea(){
    System.out.println("Enter the base of triangle:");
    a=sc.nextInt();
    System.out.println("Enter the height of triangle:");
    b=sc.nextInt();
    System.out.println("Area:"+(a*b)/2);
  }
}
class circle extends shape{
  double res;
```

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Scanner sc=new Scanner(System.in);
  void printArea(){
    System.out.println("Enter the radius of circle:");
    a=sc.nextInt();
    res=(double)3.14*(a*a);
    System.out.println("Area:"+res);
  }
}
class Testj{
  public static void main(String args[]){
    rectangle r=new rectangle();
    triangle t=new triangle();
    circle c=new circle();
    r.printArea();
    t.printArea();
    c.printArea();
  }
}
```

