```java
import java.util.Scanner;
abstract class shape
{
    int a,b;
    abstract public void printArea();
}
class rectangle extends shape
{
    rectangle(int x,int y)
    {
        a=x;
        b=y;
    }
    public void printArea()
    {
        System.out.println("Area of rectangle is:"+(a*b));
    }
}
class triangle extends shape
{
    triangle(int x,int y)
    {
        a=x;
        b=y;
    }
    public void printArea()
    {
        System.out.println("The area of triangle is:"+((a*b)/2));
    }
}
class circle extends shape
{
    circle(int y)
    {
```

```java
{
    circle(int y)
    {
        a=0;
        b=y;
    }
    public void printArea()
    {
        System.out.println("Area of circle is:"+((3.14)*b*b));
    }
}
class Main
{
    public static void main(String[]args)
    {
        Scanner sc=new Scanner(System.in);
        int a,b;
        System.out.print("Enter the length of rectangle : ");
        a=sc.nextInt();
        System.out.print("Enter the breadth of rectangle : ");
        b=sc.nextInt();
        rectangle r= new rectangle(a,b);
        r.printArea();
        System.out.print("Enter the height of triangle : ");
        a=sc.nextInt();
        System.out.print("Enter the base of triangle : ");
        b=sc.nextInt();
        triangle t= new triangle(a,b);
        t.printArea();
        System.out.print("Enter the radius of circle : ");
        a=sc.nextInt();
        circle c= new circle(a);
        c.printArea();
    }
}
```