Class triangle extends shape {
Void print Area () }
System.out.println (ee | m ----: 77");



System.out. println (" Im/m base of triangle:"); a = sc. next later; System. out. println (i'm altitude of triangle ""); b= sc. nextlet(); int area = (int) (a * 6 * (0.5)); System.out. pecintln (" In Area of triangle: "); System. out, print (Area); class circle extends shape & void printArea() } System. out, printin (ie in ----:77'); System, out. println ("Into radius of circle: "); a= sc. mextint(); float pi= (float) 3.14; float area = a *a * pi; System. out. println (ce in Area of circle 17 + area); class main { public static void main (streing args []) { rectangle s1 = new rectangle(); traingle s2 = new traingle(); ande sz = new ander); SJ. printArea(); Szu print Area (); 53. print Area();

```
import java.util.Scanner,
abstract class shape(
Scanner sc=new Scanner(System.in);
int a;
int b;
shape(){System.out.print("—*—");
abstract void printArea();
class rectangle extends shape{
void printArea(){
System.out.println("\n -----
System.out.println("\n length of rectangle:");
a=sc.nextInt():
System.out.println("\n breadth of rectangle:");
b=sc.nextInt();
nt area=a*b;
System.out.print("\n Area of rectangle :");
System.out.print(area);
class triangle extends shape{
/oid printArea(){
```

```
class triangle extends shape{
void printArea(){
System.out.println("\n ---:>>");
System.out.println("\n\n base of triangle:");
a=sc.nextInt();
System.out.println("\n altitude of triangle:");
b=sc.nextInt();
int area=(int)(a*b*(0.5));
System.out.print("\n Area of triangle :");
System.out.print(area);
class circle extends shape{
void printArea(){
System.out.println("\n ------);
System.out.println("\n\n radius of circle:");
a=sc.nextInt();
float pi=(float)3.14;
float area≡a*a*pi;
System.out.print("\n Area of circle: ");
System.out.print(area);
System out.println("\n ----:");
```

```
class main{
public static void main(String args[]){
rectangle s1=new rectangle();
triangle s2= new triangle();
circle s3=new circle();
s1.printArea();
s2.printArea();
s3.printArea();
```

```
C:\Users\cw\Desktop\00JLAB\week8(Lab4&5)\program1(Lab4)>javac main.java
C:\Users\cw\Desktop\00JLAB\week8(Lab4&5)\program1(Lab4))java main
----:>>
length of rectangle:
breadth of rectangle:
Area of rectangle :12
base of triangle:
altitude of triangle:
Area of triangle :7
radius of circle:
Area of circle: 113.04
```