Command Prompt

C:\Users\Hima\Desktop\java>javac shapemain.java

C:\Users\Hima\Desktop\java>java shapemain

area of rectangle:8 area of triangle:4 area of circle:12.56

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```
/*Develop a Java program to create an abstract class named Shape that contains two integers and
an empty method named printArea(). Provide three classes named Rectangle, Triangle and
Circle such that each one of the classes extends the class Shape. Each one of the classes contain
only the method printArea() that prints the area of the given shape.*/
abstract class shape
{
  int a,b;
  abstract void printArea();
```

```
}
class Rectangle extends shape
  Rectangle(int x,int y)
  {
  a=x;
  b=y;
 void printArea()
 { System.out.println("area of rectangle:"+ a*b);}
class triangle extends shape
 triangle(int x,int y)
  a=x;
  b=y;
  }
 void printArea()
 { System.out.println("area of triangle:"+ (a*b)/2);}
class circle extends shape
```

```
{
 triangle(int x,int y)
   a=x;
   b=y;
 void printArea()
  { System.out.println("area of triangle:"+ (a*b)/2);}
class circle extends shape
 circle(int x)
  {
  a=x;
   }
 void printArea()
  { System.out.println("area of circle:"+ 3.14*a*a);}
class shapemain
 public static void main(String sss[])
   Rectangle r = new Rectangle(2 ,4);
     r.printArea();
triangle t =new triangle(2 ,4);
     t.printArea();
circle c =new circle(2);
    c.printArea();
```