double

Develop a java program to create an abstract
class named shape that contains two integer
and an emp-named rectangle, Triangle
and circle such that each one of the classes
extends the class shape. Each one of the
classes extends the class shape. Each one of the
classes extends the class shape such as
of from the classes contain only the me
print Area() that abstract class shapes

```
ob: abstract class shape
  { double a, b;         two ...
    Shape (int x, int y)
    {
      a = x;
      b = y;
    }
    abstract void print Area();
  }

  class rectangle extends shape {
    rectangle (int x, int y)
    {
      super (x, y);
    }
  }
```

```java
void print Area ()
{
    System.out.println (" Area of rectangle is"
                            + (a*b));
}
}

class triangle extends shape {
    triangle (int x, int y)
    {
        super (x, y);
    }

    void print Area ()
    {
        System.out.println ["Area of triangle is"
                            + (0.5* a*b));
    }
}

class circle extends shape {
    circle (int x, int y)
    {
        super (x, y);
    }

    void print Area ()
    {
        print.out.println ("Area of circle is" +13.14*a*)
    }
}
```

```
class shape area {
    public static void main (string args [])
    {
        rectangle r1 = new rectangle (10,20);
        triangle t1 = new triangle (5,10);
        circle c1 = new circle (3,0);
        shape .r;
        r = r1;
        r -print Area ();
        r = t1;
        r . print Area ();
        r = c1;
        r . print Area ();
    }
}
```

Output

Putu height and width of rectangle

30 40

Area of Rectangle is 1200

Enter height and base of ~~rectangle~~

30 60

Area of Triangle is 900

Putu radius of circle

50

Area of circle is 7850 .

```
Command Prompt                                                  —  □  ×

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C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS036

C:\Users\bmsce\Desktop\1BM21CS036>javac lab4.java

C:\Users\bmsce\Desktop\1BM21CS036>java lab4
Enter height and width of rectangle
20 50
Area of Rectangle is 1000
Enter height and base of triangle
60 50
Area of Trianle is 1500.0
Enter radius of Circle
40
Area of Circle is 5024.0

C:\Users\bmsce\Desktop\1BM21CS036>
```