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.

1. Develop a jova purgram to coult an abstract day named dage that contains those integers and a entity million promed point Arce(). Browns those class named Festands, triangle of coids such that each one of the dames extends the class shape. Each one of E area of the given shape. importajara. util - \*; double x, y; a (double j) { abstract double area (); class out extends a ? rect (double i, double i)?

super (i,j);

double area () {

suturn 2\*y; class the extends a 4 di (double i double j) 4

super (i,j);

double area() 1

seturn 0.5 xx \* y;

```
class air extends a {
               cir (double i) 4
              ) super (2,2);
               double ana () (
          when the setting extra di
        class area &
           System out prottly ("centre the length and busht ) double less next tat ();
        double beschertint();
      s.op ("Enter built and base of trangle: "),
      double hose, next Int ();
     double basse.next Ent ();
    S. o. p (" Enter the radius of circle: ");
   double ra : sc. nixt int(4);
    rect = renew rect (1, 5);
  tri tenso di (h.ba);
eir censo ci (ra);
s.o.p ("Area of rectore h" +r. area ());
cop ("Area of triante is" +t. area (7);
sop ("Area of circle is" + C. area (1);
```

```
Output:

Enter the length and breadth of creetangle:

2023

43

Exter the longth breight and base of triangle:

65

34

Enter the radius of circle:

65

Area of rectangle 12 989.0

Area of circle 20 13266.5

Area of circle 20 13266.5
```

## Output

```
C:\Users\bmsce\Desktop\1BM21CS043>java area
Enter the length and breadth of rectangle:
20 43
Enter the height and base of triangle:
33 76
Enter the radius of circle:
44
Area of rectangle is860.0
Area of circle is6079.04
```