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Name - Sagar, I. Bangari
USN = 1BM2285231
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13

class named shape that Contains two integers and an empty method named print Areal). Provide three classes named Rectangle, Triangle and circle such that each one of the classes extends the classes contain only the method printAreal). that print the area of

import java.uttl.Scanner;

Etass InputScanner{

Scanner s;

InputScanner() {

s = new Scanner(System.in);

}

abstract class shape extends InputScannor?

int a;

int b;

abstract void display();

3 tlass Rectangle extends shape {

Rectangle () {

System.our.println("Enser the dimensions

of Rectangle (tenyth and breadth): ");

```
cl = s.nextInt();
                                                         20
              b = S. nextInt();
         void display() {
               system.out.println ("Avea of Rectangle = "+ a+b);
   3
   closs
         Triangle extends shape {
          Triangle () 9
             System. out. println ("Enter the dimensions
                   of Triangle (base and height): ");
                 a = s. next Intl);
                 b= s.nextInt();
         void displayers
              system.out. println ("Area of Triangle="+ atb/2);
3
Class Circle extently shape {
        Circle () {
           System. out. printing "Enter the elimension
                 of circle (radius):");
               a = s.nextInt();
       7
      void display () {
           System. out. println ("Area of circle="+3.14"a"a)
     3
```

```
clous cubstruct Class-Mains
            public static void main (string ags[]) }
                  Rectangle r = new Rectangle();
                 Triangle + = new Triangle();
                  Circle c = new artle();
                  r. display ();
                  to display();
                  c. display ();
output :-
  Enter the dimensions of revergle (length and broadth):
   2 3
  Enter the dimensions of civile (radius);
   Enter the dimensions of Triangle (base and height):
   2-4
   2 4
   Enter the dimension of circle (radius):
   Area of Rectangle = 6
   Area of Triangle = 4
   Area of circle = 28.2777
```

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