Develop a Java program to create an abstract class named shape that contains 2 integers & an empty method named printArea(). Provide three classes named Rectangle, Triangle & circle such that each one of them classes extends the class shape Each one of the classes contain only the method print Area() that prints the area of the given thouse

import java util . Sconner;

Class Inputsonner {

Inputsecunner () {

S = new Scanner (System. in);

3

double a;

double by

abstract void get Input ();
abstract void display Area ();

3

class Rectangle extends shapes

Inputscanner sc=mess Inputscanner();

System and println ("Enter the length and
broadth of rectangle");

a=sc.s.nextInt();

```
b=sc.s.nextInt();
     void display Area () {
        double area rect = a+b;
        system out printle (" Area of rectargle is "taxand)
     Triangle extends Shape {
      void get Input () {
          InputScanner sc = new InputScanner ();
         System out println ("Anters the base and
          height of triangle:");
         a = scsnext Int ();
          b=sc.s.next2nt();
      roid display Axia () {
           double area tri = a+b/2;
           system. out. println ("Area of triangle 11" toroxi)
class Circle extends Shape &
    void get Input () {
     InputScanner SC = new Inputscanner();
      Systemout println ("Enter the radius of circle");
       a = sc. s. pextInt ();
    void display Area () {
        double area circle = 3.14 * a * a;
        egetern out print In Cu Area of circle is " + orea circle);
```

public class Abstract Maint Atoldson public static void main (String args[]) ? Rectangle a - new Rectangle (); a get Input (); a. displayArea(); Triangle b= new Triangle (); bactinput (); 100,0002 260021 balcplay Areal); 20 + and Circle C = new circle (); c. get (nput (); morris da mois e-display Area(); Systemout println ("Sanketh M. Hanasi" 18m22cm) Output: · Enter the length and Breadth of rectangle: Area of rectangle is 20.0 Enter the height and bruse of tricingle: Area of triangle is 10.0 Enter the radius of circle Commission Area of circle is 314.0 caniceth. M. Hanasi 18M22CS242