Luclop a Java leigeroury to create an abstract class named Shape that contains two mitagers and an empty nothed as named print Area (). ~ Perouide Atrace classes round Rectougle, Triangle and terale send that each one of the classes esetende the class Shape. Each one of the classes contain only the nethod point Bread that prints the area of the given shape. import java. util. Scanner; class InputScanner & Scanner S; Input Scanner () { S = new Scanner (System.in); abstract class Shape extends Input Scarner & clouble a; clouble b; abstract word get Input ); abstract void display Area (); class Rectangle extends Shape & noid get Input () { System . out. print ("kulte leigth & with of rec:"); a = s. next Double (); 3. b = S. next Double (); Void duplay Area () {
3 system. out. print dn("Area & Ree:"+(a \* b));

class Torrangle extends Shape () { unid get Input () ? System. out. parit " leuter base 4 height of tai! "); a = s. nest Double (); p b= 3. next Double (); void display Dres () { System o out · println ("Area of tei: "46.5 \* a \* b)); Corcle extends Shape () { void get Input () [ System out. print ("luter radius glirele:");

a = S. next Double (); void display Area () & System out . penith ("Around Circle:"+

(mater PI \* a \* a)); public class Main { public atatic void main (string [], args) { Rectargle rectargle = new Rontangle (); Terrongle triangle = new Trenangle (); Corcle sercle = new diricle O; rectargle get Input!); rectaigle . desplay Area(); tourigle, get Iput (); Tourigle display Acoa (); derile get Input!); wille display Area ().

Center length and medite of rectongle: 10 20 Decea of Rectangle: 200 luter sase and height of bringle: 10 30 derea of Terrangle: 150 Curter reacties of coicle: 15 dera of Circle: 706.8583 Solo 12t Name: Shreya Netanea USN: JBM22CS266