2 1 23 Develop a Java program to meale an abstract class named shape that contains two integers and an empty method named printArisa () Provide three classes named Rectangle, triangle and circle such that each one of the classes named extends class shape tach one classes contain only the Mathod Avica (). that prints the area of the given shape import java util. Scanner; dass InputScanner { Deanner 8 = new Scommer (System in); double get input (String prompt). { system out println (prompt); return 8. next Double (); } } abstract class Shape extends Input Scumer { double side 1, side 2, abstract void area () {; } does Rectangle extends Shape { Rectangle () { sidel = get Input (" Enter rectangle length:"

Side2 = get Input (" Enter roctangle breadth:

area side 1 \* side 2; class triangle extends Shape side 1 = get Input ( Enter sede 2 = get Input ( " Enter height System out printle ("Agra of friangle =" + on class circle extends shape { side = getInput (" Enter radius of circle:" double area = Math. PI \* side 1 \* side 1; System out pountly ("Area of corcle" + area) while of laport to enter sectional paralles

dass Main { public states word Main 08 Roctangle roctangle = new Restangle(); triangle - Towarde = new triangle(); circle - Circle = new Circle(); rectangle area (); Friangle area (); } Af negative values to be shecked das Input Scanner { Scarmer. 5 = new Scarmer (System.in); int get Input (String prompt) [ doublite input; System - out. printle (prompt); input = s. next Double; if (doupet <0){ System out-println (" Guter positive values only"); 3 while (input < 0); resturn input; 3 }

Enter rectangle length: 12. base of Leviangle: 5 bases of Leviangle: 10 Enler radius of Sircle: 10 reit angle - 120.000 of triangle = 25.000 of circle = 314.000