4. Develop a Java program to create an abstract 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 class shape. Each one of the classes contain only the method printArea() that prints the area of the given shape. import java util. Scanner; class InputScannerd Scanner SC = new Scanner (System in); I sout to one with laterage two must abstract class shape extends InputScanners double a,b; abstract void getinput(); abstract void displayareal); class rectangle extends shaped to void getinput() alteristications System.out, printin(" Enter the length and breadth of the rectangle: "); a = sc. next Double(); b= sc. next Double (); void displayarea() System.out. println ("The area of rectangle is" + (axb)).

class triangle extends shaped void getinput () System.out.println(" Enter the base & height of a triangle:"); a = Sc. next Double(); b = sc. next Double (); void displayareal) System.out.println["The area of triangle is:"+ (0.5 x a x b)); class circle extends shaped void getinput() System.out. println ("Enter the radius of the circle:"); a= sexscinext Double (); displayareal? void System. out, println ("The area of circle is:"+ (3.14 * a * a)); class Aread public static void main (String args[]) shape ref; ref = new rectangle (); ref. get input(); ret, display area ();

ret = new triangle();
ref. get input ();
ret. flsplay areal);
ref = new cardel);
refigetinput();
ref. display area();
}
Output:
Enter the length and breadth of the rectangle:
4 7
The area of rectangle is: 28
Enter the base and height of the triangle:
3 6
The area of triangle is: 9.0
There the redius of circle:
4
The area of circle is: 50.24
N. all /110
2

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