Page____ PROGRAM-4 a) Develop a Java gorogram to create an Abstract class named shape that contains thrountegers and an empty method named print Area(). Provide ethree classes named Rectangle, Triangle and circle such that each one of The classes extende the class shape Each one way the classes contain only also method frint Area() that prints the area up the given shape. import java. util. scanner; abstract class shape (music triangel mibrithase, int right unt dim 2, 1 mil dung = hught. public shape () & this · dim 1 = 0; Open this. dim 2= 0 /2/10 double ones - 0.5 & dimi & dims system cut privite ("Arca public snape (int dim1, vint dim 2) { this. dim1 = dim1; this dim 2 = dim2; dass will extends evape t public abstract void printArea (); withor = 1 mills

Date______

Date_____ PROGRAM-4 class Rectangle extends shape 1 public Rectangle (unt length, int width way on bon dim 1 = dength; enistries ab and a whathin bouten where days rand pectofole margle and circle such strate care and so public void porint Area() for wit area = dim 1 of dim 2, system out printing " Area of squestrovia a Rectangle " " ut aread; 3 - s impost yard. will scannes; class Triangle extends shape for public Iriangle (unt base, int high dim 1 base; dru dim 2 = height; public shape () = 0 = 1 mile . zinte public void print Area() & double area = 0.5 * dim 1 * dim 2; system. out. printer ("Area in mis the triangle with area); I (emily to mile = mile : 2i 3 , emilo - e milo - ainte class circle extends shape of De public & circle (int radius) (dim 1 = radius; dim 2 = 0;

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60	prublic void printareac) ?
il su	double area = Math. P1 * dim1 * dim1.
4	System.out. println ("Area og
	circle: " + area);
	3 maj (1) rober vin array what
	3 was the wittener many scored in
	y is a substitute of the cure one for este
-	public class shapes 1
4	public étaite void main (stringe [] args)
: 314	scannes in new scannes (system in);
	trendent. The state has an orray.
	system.out.printin("Enter dength
	and wroth for pectangle:");
(0)	out Exter base and hight year young
	unt length= wn. nextInt();
	unt winth in nextint();
	shape rectangle new rectangle (length
	L'Attorna radius par circle.
14	rectangle. print Area ();
	Area up carde: 452. 38934 21169302
	system-out. println l'Enter base and
	height for Triangle: ");
	unt base in next Intilize
	unt height = in. nextInt();
	shape triangle = new Triangle (base,
	height);
	triangle. mnt Area ();
	and the state of t
	System out println ("Enter radius"
	yor circle: ");
	such 3 nexetine () y

(int radius in nextInt(); shape circle new circle (radius); 12 and marche print trea (); e directes " + ave in . close (); Tublic closes shapes ? Enter length and width yor Rectangle: 10 System. out, printing "Enter 15, 10th Area of Rectangle: 150 Enter base and height for yriangle; Just length - w - nexthat () & unt existing and nexterit ()2 Area of Triangle: 9.0 Enter radius for circle: 12 (Start Area) 21 Area of circle: 452.38934 21169302 system out pointin ("Enter been JUE DASE - MA NEXT WIT (DELON with hardyth is in nexternt (shape talongle - new triavale Tribungle PM NIC ATELL (1) sulper whos") although the many