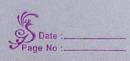
4. Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method printArea() that prints the area of the given shape.

oaliz	Date :
Q.	Develop a java program to create abstract dass
	named shape that contains two integers and an
	empty method named print Area (). Provide 3
	classes named Restangle, triangle, circle such that
	each one of the classes extends the class
	shape. Each one of the classes contain only the
	method print Area () that prints the area of
	the given shape.
	import java util. Scanner;
	abstract class shape &
	int a,b;
	abstract roid print Area ();
	Translet to men triumpleto &
	claiss Rectangle entends shape
	Variable & regardly marge to range to
	void printArea():
	Contraction and partial Contraction of the Contract
	double grea;
	area = a + b j man + 10 mon 17
	system. out println ("The area of rectangle is"
	farea);
	3 Constant
	y
	class Triangle extends Shape
	A feel and I straig to a more way
	void print Area ()
	TOTAL PROPERTY DIS
	double areais de la de
	area = 0.5 * a * b) 1 * 1 60 4
	System.out. printin ("The area of of mangle is"
	tarea); 3
	9



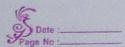
	Page no :
	class Orde ortends shapes
	class arde ortends shaper
	The state of the s
	a book printing the area of the
	1 disc "+ area) 1
15	Barrier & The Control of the Control
	3
	class Area & word 1sty man a gar
	public static void main (string orgs ())
	1
	Rectangle r= new Rectangle ();
	Triangle t = new Triangle ();
	Circle c = new Circle ()
	Sconner ss = new Sconner (System.in);
	while (true) & marketing box
	System.out.println ("choose the shape
	whose area is to be calculated: ");
	System. out. println ("s. Pertangle \n 2.
	Triangle \n3 circle \nu-Exit');
	int n= ss:nentInt();
	switch(n)
	1
	casel: Some should be to
	System. out-println (" Enter length
	and breadth of rectangle "Ji
	7.a=Ss.next.Int();
	r.b = SS. nent Int ()
	To point Area();
	break) de break)
	l dans



_	
	case 2:
	System-out printh ("Enter base and height
	of triangle "Die bounder
	to a = ss. nextInt();
	+. b = 58. nextInt ();
	t. printArea();
	break;
	Deast 3:40 Abbased been Alpen what
	System.out. println ("Enter radius of
	a rivele (1) in o) of to over out
	Coa = ss. nent Int ();
	c. print Area(); " balalalas
	break; Jenstis
	V 5/005 (P 5
	case u: system. exit(0);
	30000
	default:
	System out println ("wrong choice!");
	3
	3 de land part to one and
	date some stades agods with second
	2 installation
	1. Pertingle
	2 mint 5
	\$ (6) (6
	dialos
	. 9
	man ha wiker alk mind
	the state of the s
	118 or in object to some with



	raya no :
	Output
7 305 30	Choose the shape wo whose area is to be
	calculated: 3
	1. Rectange
	2. Manga
	3- Circle
	4- Exit
	1
	Enter length and breadth of rectangle
10	cost 2 - +3 + 1) relitating too me 1 122
	The area of Roctang 4 is 6.0
	Choose the shape whose area is to be
	colculated: "
	1. Reitangle
	2. Triangle
	3. Circle 100 there are true 11 same
	4. Exit
.//	2. The second of
	Enter the base and height of triangle
	2 3
	The area of this triangle is 3.0
	choose the shape whose area is to be
	Calculated:
	1. Reitangle
	2. Triangle 3. Circle
	4. Grit
	Falsa II and i
	Enter the radius of circle
	the area of circle is 50.74



_	Page No:
	choose the shape whose area is to be
	calculated:
	1. Rectangle
	22 Triangle
	4 trit partie
	4 trit gain
70	all 4 the food many allegan
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	15) resoluted the fishers are also decommissioners
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	the for minimum to have proper
	and oth properties gracement to plant

Output:

```
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Hp>E:
E:\Desktop\Java Programming
E:\Desktop\Java Programming>javac prog4.java
E:\Desktop\Java Programming>java Area
Choose the shape whose area is to be calculated:
1.Rectangle
3.Circle
4.Exit
1
Enter length and breadth of rectangle
2.3
The area of rectangle is 6.0
Choose the shape whose area is to be calculated:
1.Rectangle
3.Circle
4.Exit
1
Enter length and breadth of rectangle
2.3
The area of rectangle is 6.0
Choose the shape whose area is to be calculated:
1.Rectangle
3.Circle
4.Exit
2
Enter base and height of triangle
2.3
The area of triangle is 3.0
```

