Week-4 Abstract class program for printing area of rectangle, triangle and virile. import java. util. Scanner; abstract class Shape ? Shape (double a, double b) & dim1 = 4; 11 1911 3 000 1000 abstract void printArea(); class Rectangle extends Shape & 1 z super(a,b); void printAreal) & void printAreal) &

System out. println ("Area of Roctangle is" + (him1 * din2) Class Triangle extends Shape of Triangle (double a, double b) & super(a,b), void print Area () of System. out. println l'Area of Triangle is" + (1 * din1 * din)

class Circle extends Shape () { Conto (double a) Circle (double a)

\$ super(a); super(a, b) Circle (double a bouble b) 5 yord print Area U.S. System. out. println("Area.

final double pi = 3.14159. void printArea () { void print/rea () ?

System out println ("Area of circle is" + pi "Noth.

pow(dim 2). dass Main & S public static void main (String args[]) { Scanner S=new Scanner (System.in); double a, b; System. out. println ("Enter sider of rectangle: "); a = Se S. next Double (); b = S. pext Double (); Rectangle v= new Pectangle (a,b); System. out. println (" Finter height and base length

of briangle:");

b = S. next Double (); Triangle t= new Triangle (a, b);

clas Circle estends Shape () { Circle (double a, double b) & \$ super(x); 3 super(a, b), roid print Area U.S. final double pi = 3.14159; void printArea () {

System. out. println ("Area of circle is" + pr Math.

pow(dim1.4). class Main & {

public static void main (String args[]) { Scanner S=new Scanner (System.in); double a, b; System. out. println C"Enter sider of rectangle: "); a = Ska S. next Double(); b = S. pext Double (); Rectangle &= new Pectangle (a,b); System. out. println (" Enter height and base length

of briangli:");

b = S. next Double (); Triangle t= new Triangle (a,b);

System out println ("Enter sadius of circle: ") a = S. nextDouble(); Circle C = now Circle (a,D; Shape S; S. printArea O; S. printArea(); S. printArally Output: Enter sides of sectangle: Enter height and base length of Triangle Enter radius of Circle: Area of Rectangle is 2.0 Area of Triangle is 5.0 Area of circle is 78.53975