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Assignment - 3

1. Watte a program it o calculate and frint the surface area in a cuboid whose length breadth and height will be igner by the user.

Surface area of cuboid is = 2lb+2bh+2hl

Class Shea

public statie void main (String args [])

int l,b,h; double area; Scanner Sc = new Scanner (Systemin); Systemous frindly ("Enter the sides of cuboid"); l= sc.nerdInf(); b = ScnextInd(); h = Sc. next Inf(); area = 2* (l*b+b*h+h*l)
System. out. frintln ("Surface Area is:"+ area);

2. Write a program to input the number them then user and find the maximum number between them to and foint it as a output.

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	Class Number
	E public statu void main (String args [])
	2/
	int a, b; max; Scanner Sc = new Scanner (System.in);
	System.out. brindly ("Ender two numbers");
	Q = Sc. nerdInd();
	b = sc. newInt(); max = Math. max (9, b);
	System. out fristly ("Maximum number is:"+ max);
	2
	2
3.	Write a program is evaluate the expression $x = \sqrt{a^2 + b^2}$, where the value of a and b will be given by the user and print the value of x .
	where the value of a and b will be siven by
	The user and print the value of x.
	Class Expression 1
	S
	publo clato of a Comment
	public static void mais (String args [])
	and for the same of the same o
	int q, b;
O RED	MINOTE 8 C.
CO AI	MINOTE 8 Scarrer Sc = new Scarrer (System.in);

System out privaler ("Enter the value of gandb"); a = sc.nextInt(); b = sc. nextInd (); x = Math. sqrt (Math. pow (a, 2) + Math. pow (b, 2)); System out frintly ("Value of x is: " +x); 4. Whate a program to evaluate the expression $y = qx^3 + bx^2 + cx + d$, where the value of q, b, x and cl will be given by the user card print the value of y. Class Expression 2 public static vold main (String args[]) int q, b, x, d;Scanner Sc= new Scanner (System.in); System.out. friedle ("Enter the value of a, b, x and d"); a= sc. needInt(); b = Sc. nextInt(); rez sc. nextInf(); y = g * (Math. pow (n, 3) + b * Math. pow (n, 2) + c * n + d; System out frintly ("Value of y is: " + y); O REDMI NOTE 8

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5. What is the difference between Moth ceil and moth floor?
The moth ceil functions mounds ca floating point value up to the nearest centeger value.

Whereas
The math floor function rounds a floating point value down to the nearest integer value.

6. Evaluate whe value of y the following Java expression:

double y = math.ceil (-31.887)+ math.round (234.44)+ Math. max (-45,-50).

y = -31 + 234 + (-45) y = -76 + 234y = 158

F. Work the equivalent Java Expression of $S = Ut + \int_{2}^{1} q d^{2}$ $S = U + t + 1/2 \quad q + Math.pow(t, 2)$