

Develop a Java program that print ay real solutions to the quadratic equation axt + bostc=0. Read in a,b, C + we the quadratic formula. If the discriminate bt- fac is interest of dixplay a meyage stating that there are no real solution

import java-lang. Math.

class quadrahic Equation {

public stotic void main (string[] args) {

Scanner S = new Scanner (Syxtem.in).

Souble a, b, C, det, r1, r2.

System. out. print ln ("Enter 3 numbers in

a quadratic equation.").

a = S. next Double().

b = S. next Double().

c = S. next Double().

det = (bxb) - (4 \* a\*c).

if (det 70) {

r1= (-b + Math. sqrt(det))/(2\*a).

System. out. println("Roots are real and

un equal. In Root: "+x1+", "+x).

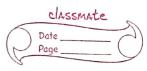
elscif (det = = 6) {

y1 = -b / (2 \* 4);

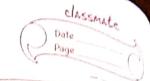
System.out.println ("poots are year and and equal. In Roots: "+x);

cue {

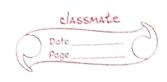
3 System. out. Printly ("No real rook.")



	No. of the second secon
2	Accept an array of n integers. Find the
	number of positive numbers, negative numbers
	and Zerop.
	import java. wil. * .
	Closx no OfpNZ {
	public static Void main (String [] args) {
	Scanner S= new Sconner (System.in)
	int[] a = new int[10];
	int n, pCount = 0, ncount = 0 = count = 0.
	System · out · print (n ( Enter Size of gray.)).
	n= s.nept Int ().
	System. Out. printly ("Enter elements of orray.");
	70, (111 (-0; (2N; CFT))
	a [i] = S. nept Int();
	If (a [i] 70)
	P Count ++;
	else if Ca[i] <0)
	n Count ++;
***************************************	else
	Z_Count ++;
	<u></u>
	System. out printly ("Number of positive.
	Values: " + p Count).
	System. Out. println ("Number of negative values: "+ n Count):
	Valuey: + n counts
	System. Out. printly ("Number of Zeron: 3)
	+ 2 Count);
	9
	}



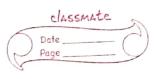
7	
3	Accept an array of size in from the were Find the sum of even in direct Circ. 0, 2, 4, ) of sum of odd indice
	(1) 3, 5) & print +50 = 5000
	import j'ava. uti'(. *;
	Clarge Sumof Indices {  public static void main (String Jarge) {
	int[] a = new int[10];
	int n, odd Inder Sym=0, even Ind & Sum=0.  Syftem · out · println ("Enter Size of array.").
	System out printly ("Enter element of array.")
	for (int i=0; i <n; [i]="S." a="" i+t){="" int();<="" nat="" th=""></n;>
,	if (i1.2 = =0)
	even Inder Sym: even Inder Sum to[i], else
	g odd InderSum = odd InderSumtali)
	System. out. println ("Sum of even indep Values: "+ even Indep Sum);
	System out printly (" Sum of odd indep Value: " + odd Indep Sum);
	3 3 +Odd Indep Sum)



·	
3	Consider a super morket bill. Accept a double array
	holding rate per item of say x items of
	and an int array showing the quantity
	purchased by a customer. Calculate the
	total bill amount & the final bill
	amount after giving discourts as per
	the fooliowing slabs.
	If the total bill amount 7= 10000, discount = 5%.
	It the total bill amount 7 = 7500 & <10000,
	discourt = 3%
	If the total bill amount >= 5000, discount=2%
	import java. util. #;
· 7	class bilicalaulator [
	public Static void main (String [] args) {
	Scanner 5 = new Scanner (system.in).
	int[][] a= new int [10] [2];
	double bill = 0, discount, items, totalkill.
	System. out. print in C'Enter number of
	itemp.");
	item = 5. next Int ();
	System, out printly C'Enter quantity and
	price of item.").
	for (int i=0; i <iteme; i++)="" th="" {<=""></iteme;>
	for Cint j=0, j <2; j++)
	a [i] [j] = 5. next Int();
	Ž ,
	, , e
	for Cint i=0; i < items; i+) {
	ight quantity = a [i][o];
	int price per Item = 9 [i][i];



The state of the s	
	bill += quantity * price per Item.
1	3
3 3 3	System. out. println ("Bill = "+ biu).
	if (biu >= 10000)
	diagnat = 0.050:
3-1-5-4	else if CbiU < 10000 & & biU 7= 7500)
C	discount = 0.03D;
	else
Maria Carrier	2's Count = 0.02D;
	total Bill = bill # dix Count,
	System out printlen ("Bill after dissount."
	- total B; U).
. <u> (</u>	9
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a Arasi	
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	The second of the Vale of State
	3 (442 (140) 12 ) 13 1 1 1 1 1
	And



5	Accept an array A of n elements. Create
	+100 new arrays where the first one say B
	that holds all the odd numbers from
	array A & the seard say a hold the
	even numbers from array D. Display the
	Sum, average, max & min of avray C.
	import j'ava: util *;
	Class orrayOrgonizes ?
	public Static void main (String[] orgs) {
	Scanner S: new Scanner (System.in);
	Scanner S: Mets Scanner (5 95)
	int[] a = new int [10], b= new int [10],
	c= new in+[10].
	int CSum=0, CAVB, CMin, CMax, j=0, K=0, n.
	System. Out. println ("Enter Dize of gray.").
	System. Out. printly ( Enter \$176 of 4mig.)
	n= S. nept Int ().
	System. Out. println C"Enter clements of grow,").
	for Cint i=0, i\n, i++) {
	a [i]= s. nept Int ();
4	If (a[i] 1. 2 ! 0) {
	b[j]=a[i];
	j ++ j
	else &
	C[K]: a[i];
	K++;
	y