Week 1 Arvind Ashok (1BM21CS032)

3		
		PAGE NO:  DATE:
	18/11/22	Quadratic Equation
		import Gava. util. Scanner;
		import java larg. Math;
	THE VIEW	and the self of th
		public clan Quadratic &  public Static void main ( String ang st.) &
		float 9, b, c,d;
		double noot1, noot2;
-		Scanner s = new Scanner (Systemia);
		System out print / ("Enter conflicients: x");
		bes b= S. Mut Float ();
		( > S. Net Float ();
		d= (b*b-(4*a*c));
		if (a==0) {
		System. o.t. prith ("Not a quadratic equation");
		J Notes and the second
		ehr if (d>0) {
		sport = (-b + math sgrt (d))/(2 c);
		novet 2= (-b-Math. sgrt (d))/(2*a);
		System out private ("Real and distinct routh  are: "+ nout + " and "+ nout 2); }
		ale il (dro) {
		$noot = -b/(2^n a)$
		70012 = d/(2"a);
		System.out. postula ("Imaginary nooth are:"+ 200+1+
		"it" + noot 2+" and "+ noot 1 +"-i" + noot 2), ?
		else f
		rout 1 = -b/(2*a);
		System out printle ("keal most in: "+ most 1);}
		2
	1	J
	1	

Out put: . Enter coefficient: Imaginary mooth are = 2.0+ i(-80) and 2.0 = -i(-8) 2. Enter coefficients: Not a quadretic equation 3 Enter coefficients: led and distinct nouth are: -0.5278 ad 4. Exter cofficients: Real post in -1.0 and -

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C:\Users\bmsce\Desktop\1BM21CS032\00J>java Quadratic
Enter coefficients:
1 -4 8
Imaginary roots and distinct are:2.0+i-8.0 and 2.0-i-8.0
C:\Users\bmsce\Desktop\1BM21CS032\00J>java Quadratic
Enter coefficients:
0 5 6
Not a quadratic equation
C:\Users\bmsce\Desktop\1BM21CS032\00J>java Quadratic
Enter coefficients:
1 10 5
Real and distinct roots are:-0.5278640450004204 and -9.47213595499958
C:\Users\bmsce\Desktop\1BM21CS032\00J>java Quadratic
Enter coefficients:
2 4 2
Real roots are:-1.0and-1.0
```