Java1(Quadratic Equation):

}

```
import java.util.Scanner;
import java.lang.Math;
public class Quad{
        public static void main(String args[])
        {
                System.out.println("Enter values of a,b and c of a quadratic equation:");
                Scanner sc=new Scanner(System.in);
                int a,b,c;
                a=sc.nextInt();
                b=sc.nextInt();
                c=sc.nextInt();
                double d,x1,x2;
                d=b*b-4*a*c;
                if(d<0)
                {
                        System.out.println("Equation does not have any real roots!");
                }
                else
                {
                        x1=(-b+Math.sqrt(d))/(2*a);
                        x2=(-b-Math.sqrt(d))/(2*a);
                        System.out.println("Roots are:\nx1="+x1+"\nx2="+x2);
                }
        }
```

OUTPUT:

```
C:\Users\misaf\Desktop\OOJ-LAB>javac Quad.java
C:\Users\misaf\Desktop\OOJ-LAB>java Quad
Enter values of a,b and c of a quadratic equation:
1
10
4
Roots are:
x1=-0.41742430504416017
x2=-9.582575694955839
```

```
C:\Users\misaf\Desktop\OOJ-LAB>java Quad
Enter values of a,b and c of a quadratic equation:
10
3
9
Equation does not have any real roots!
```