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IBM19CS010

LAB:- 1

Quadratic

1)
```java
import java.util.*;
class Main
{
    public static void main (string [ ] arg)
    {
        Scanner s= new Scanner (system.in);
        System.out.println ("Enter a,b,c of equation ax²+bx+c=0");
        double a=s.nextdouble();
        double b=s.next Double();
        double c=s.next double();
        double d= b*b-4.0*a*c;
        double roots1, roots 2;

        if (d>0)
        {
            roots1= (-b-Math.sqrt (d))/(2.0*a);
            root.2= (-b +math.sq rt (d))/(2.0*a);
            System.out.println ("Two real roots are : "+roots1+" "+roots2);
        }
        else if (d==0)
        {
            system.out.println ("Roots are real & equal");
            roots1= (-1*b)/(2*a);
            roots2= roots1;
            system.out.println ("Roots are "+roots1+" "+roots2);
        }
```

```java
else
{
    System.out.println("There is no real roots");
}
}
}
```