```
import java.io.*;
import java.util.*;
import java.lang.*;
public class quadratic
{
  private static double a;
  private static double b;
  private static double c;
  public static void read()
  {
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the Co-Effcient a");
    a=sc.nextDouble();
    System.out.println("Enter the Co-Effcient b");
    b=sc.nextDouble();
    System.out.println("Enter the Co-Effcient c");
    c=sc.nextDouble();
    System.out.println("THANK YOU FOR ENTERRING THE CO-EFFCIENTS");
  }
  public static void calc()
  {
    read();
    double d=b*b-4*a*c;
    if(d>0)
    {
      System.out.println("ROOTS ARE REAL AND DISTINCT");
      System.out.println("FIRST ROOT IS " + (-b+Math.sqrt(d))/(2*a));
      System.out.println("FIRST ROOT IS" + (-b-Math.sqrt(d))/(2*a));
```

```
}
  else if(d==0)
  {
    System.out.println("Roots are equal");
    System.out.println("ROOTS ARE " + (-b)/(2*a));
  }
  else
  {
    System.out.println("ROOTS ARE IMAGINARY");
    System.out.println("ROOTS ARE " + -b/(2*a) + "+" +"i" + (Math.sqrt(-d))/(2*a));
    System.out.println("ROOTS ARE " + -b/(2*a) + "-" +"i" + (Math.sqrt(-d))/(2*a));
  }
}
public static void main(String[] args)
{
  calc();
}
```

OUTPUT:

}

OUTPUT IS SHARED IN THE NEXT PAGE

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