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Lab - 1

~~import~~

```
import java.util.Scanner;
public class lab1{
public static int det (int a, int b, int c){
 int d= b*b -4*a*c;
 return d;
}
public static void main (String [] args){
 double r1, r2, real, imag;
 Scanner x = new Scanner(System.in);
 System.out.println("enter the a,b,c values:");
 int a=x.nextInt();
 int b = x.nextInt();
 int c = x.nextInt();
 int d = det (a,b,c);
 if (d==0){
 r1 =-b + Math.sqrt(d*1.0);
 r2 = -b + Math.sqrt(d*1.0);
 System.out.println("the roots are real and equal:"+r1+","
  +r2);
 }
 if(d>0){
 r1 = -b + Math.sqrt (d*1.0);
 r2 = -b + Math.sqrt (d*1.0);
 System.out.println ("The roots are real but not equal
  +r1+","+r2);
 }
 if (d>0) {
 real = -b;
 imag = d;
 System.out.println ("the roots are imaginary:"+(real)+
 ~~"+("+(+b0*imag)+"i");~~
```

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```
"+i"+(+1.0*imag)+"i),"+(real)+"+("+(-1.0*imag)+"i)");
}
}
}
```

Scanned by CamScanner