SHASHIDHAR B M
1BM22CS257

(1) Lab Program - 1

```
import java.util.*;
public class Quadratic{
public static void main(String args[]){
    double i,j,k;
    double disc,root1,root2;
    Scanner sc = new Scanner(System.in);
    i = sc.nextInt();
    j = sc.next.Int();
    k = sc.next.Int();
    disc = j*j - 4*i*k;
    if(disc>0){
     System.out.println("Roots are real and
                         distinct");
     root1 =(-j + Math.sqrt(disc))/2*i;
     root2 = (-j + Math.sqrt(disc))/2*i;
     System.out.println(" Roots are
                         Root1:"+root1+"
                         Root2:"+root2);
     if (disc==0){
     root1 = -(j/2*i);
     System.out.println("Roots are "+root1+
                         " and "+root2);
     }
     if(disc<0){
       System.out.println("Roots are imaginary");
     }
    }
}
```

Output: Shashidhar B M 1BM22CS257.

1
-4
4
Roots are Root1 : 2.0 and Root2 2.0

Case 2:
1
-2
4
Roots are imaginary

Case 3.
1
-5
6.
Roots are Root1 : 3 and Root2 2.0.
