

Week-3

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IBNUCS009

```
import java.util.Scanner;
```

```
public class Roots
```

```
{
```

```
    public static void main (String args [])
```

```
{
```

```
    double second root = 0, first root = 0;
```

```
    Scanner sc = new Scanner (System.in);
```

```
    System.out.println ("Enter the value of a, b, c");
```

```
    double a = sc.nextDouble ();
```

```
    double b = sc.nextDouble ();
```

```
    double c = sc.nextDouble ();
```

```
    double sqrt [(b × b) - (4 × a × c)];
```

```
    if (det > 0)
```

```
{
```

```
        first root = (-b + det) / (2 × a);
```

```
        second root = (-b - det) / (2 × a);
```

```
        System.out.println ("Roots are: " + firstroot + "and" +  
                                second root);
```

```
}
```

```
    else if (det == 0)
```

```
        System.out.println ("Roots is: " + (-b) / (2 × a));
```

```
    else if (det < 0)
```

```
        System.out.println ("no real root exist").
```