

C:\Users\Deepu K\java>java main

Enter three integers:

5

7

9

No real solutions.

C:\Users\Deepu K\java>java main

Enter three integers:

1

2

1

The roots are real and equal and their value is equal to -1.0

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Enter three integers:

5

7

9

No real solutions.

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Enter three integers:

5

7

2

The roots are real and distinct and their values are -0.4 and -1.0

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lab2 - Notepad

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

```
public class lab2 {
```

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

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

```
        System.out.println("Enter three numbers:");
```

```
        int a, b, c;
```

```
        a = scanner.nextDouble();
```

```
        b = scanner.nextDouble();
```

```
        c = scanner.nextDouble();
```

```
        double dis;
```

```
        dis = Math.sqrt(b*b - 4*a*c);
```

```
        if(dis > 0)
```

```
        {
```

```
            double root1, root2;
```

```
            root1 = (-b + dis)/(2.0*a);
```

```
            root2 = (-b - dis)/(2.0*a);
```

```
            System.out.println("The roots are real and distinct and their values are "+root1+ " and "+root2);
```

```
        }
```

```
        else if(dis == 0)
```

```
        {
```

```
            double root;
```

```
            root = -b/(2.0*a);
```

```
            System.out.println("The roots are real and equal and their value is equal to "+root);
```

```
        }
```

```
        else
```

```
            System.out.println("No real solutions.");
```

```
    }
```

```
}
```

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