Week - 3

Ans =

```
import java.util.Scanner;

public class LAB5 {
  public static void main (String[] args) {
    Scanner sc = new Scanner(System.in);
    int a, b, c;
    double d, s1, s2;
System.out.print("Enter the values of a,b,c of a quadratic
                  equation: ");
    a = sc.nextInt();
    b = sc.nextInt();
    c = sc.nextInt();
    sc.close();
    d = (double)((b*b) - 4*a*c));
    if (a==0) {
      System.out.println("Invalid");
      return;
    }
    if (d<0) {
      system.out.println("No real solutions!");
    }
    else if (d==0) {
      s1 = (double)((-b + Math.sqrt(d)) / (2*a));
      s2 = (double)((-b - Math.sqrt(d)) / (2*a));
    system.out.printf("Roots are Real and Equal: %.4f and %.4f"
                      , s1, s2);
  }
  else {
      s1 = (double)((-b + Math.sqrt(d)) / (2*a));
      s2 = (double)((-b - Math.sqrt(d)) / (2*a));
    System.out.printf("Roots are Real and Distinct: %.4f and %.4f
```

```
        , s1, s2) ;
    {
    }
}
```