



جامعة عفت
EFFAT UNIVERSITY

OOP - Spring2022

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1 Downloading and Installing Java

- Download Java Development Kit for Windows
- Execute the installer

2 Downloading and Installing Eclipse IDE

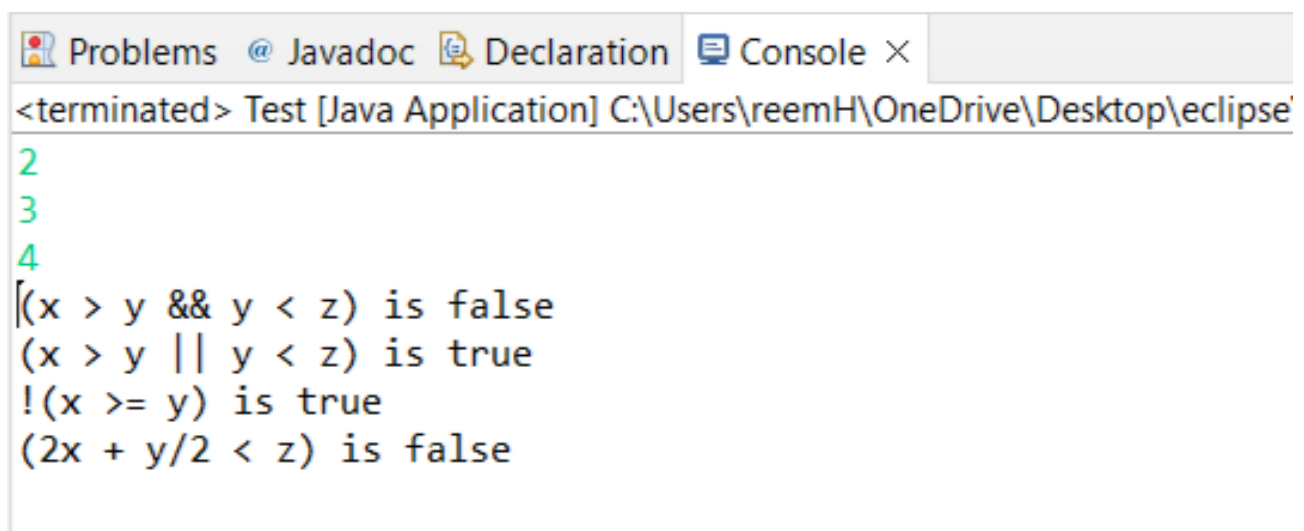
- Download Eclipse IDE for Java Developers for Windows
- Extract the zip file and execute the application eclipse

3 Implementing Java programs

3.1 Example 1

```
public class Test {  
    public static void main(String[] args) {  
        double x, y, z;  
        java.util.Scanner input = new java.util.Scanner(System.in);  
        x = input.nextDouble();  
        y = input.nextDouble();  
        z = input.nextDouble();  
        System.out.println("(x > y && y < z) is " + (x > y && y < z));  
        System.out.println("(x > y || y < z) is " + (x > y || y < z));  
        System.out.println("!(x >= y) is " + !(x >= y));  
        System.out.println("(2x + y/2 < z) is " + (2 * x + y / 2 < z));  
        input.close();  
    }  
}
```

3.2 Output



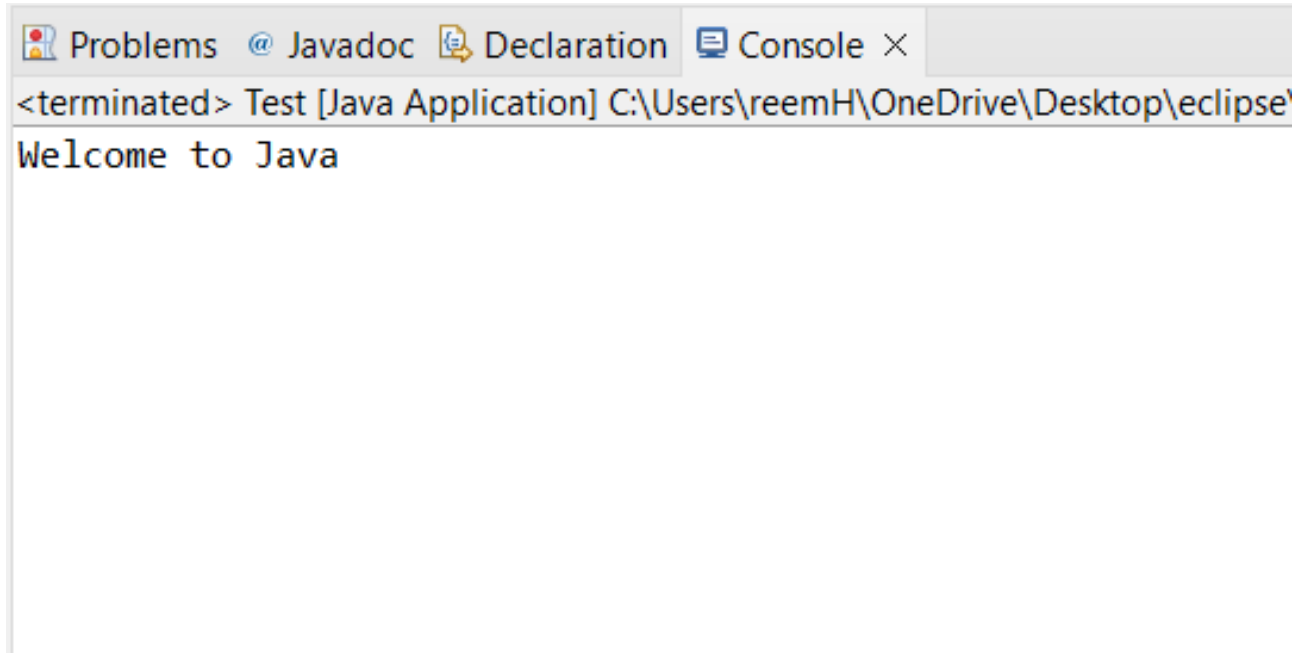
The screenshot shows the Eclipse IDE interface with the 'Console' tab selected. The title bar of the console window reads '<terminated> Test [Java Application] C:\Users\reemH\OneDrive\Desktop\eclipse'. The console output displays the results of the program's execution, with line numbers 2, 3, and 4 visible on the left margin. The output consists of five lines of text, each representing a logical expression and its boolean result.

```
<terminated> Test [Java Application] C:\Users\reemH\OneDrive\Desktop\eclipse'  
2  
3  
4  
[(x > y && y < z) is false  
(x > y || y < z) is true  
!(x >= y) is true  
(2x + y/2 < z) is false
```

3.3 Example 2

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println("Welcome to Java");  
    }  
}
```

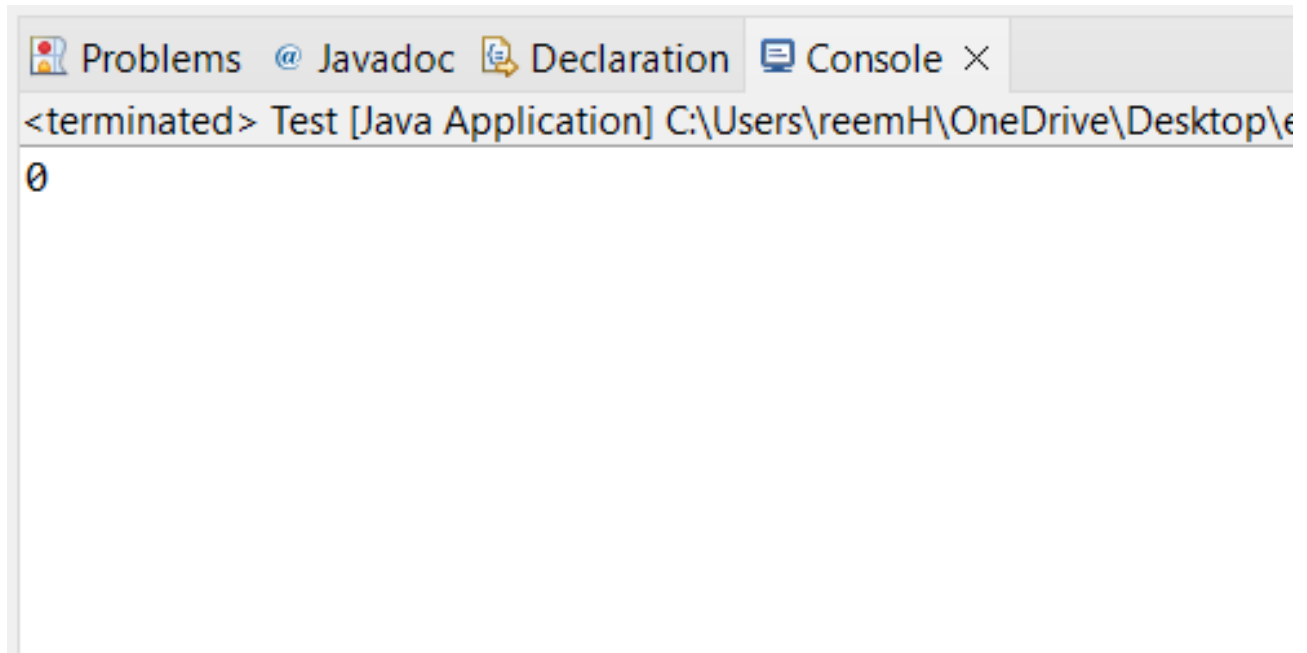
3.4 Output



3.5 Example 3

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println(0 / 1);  
    }  
}
```

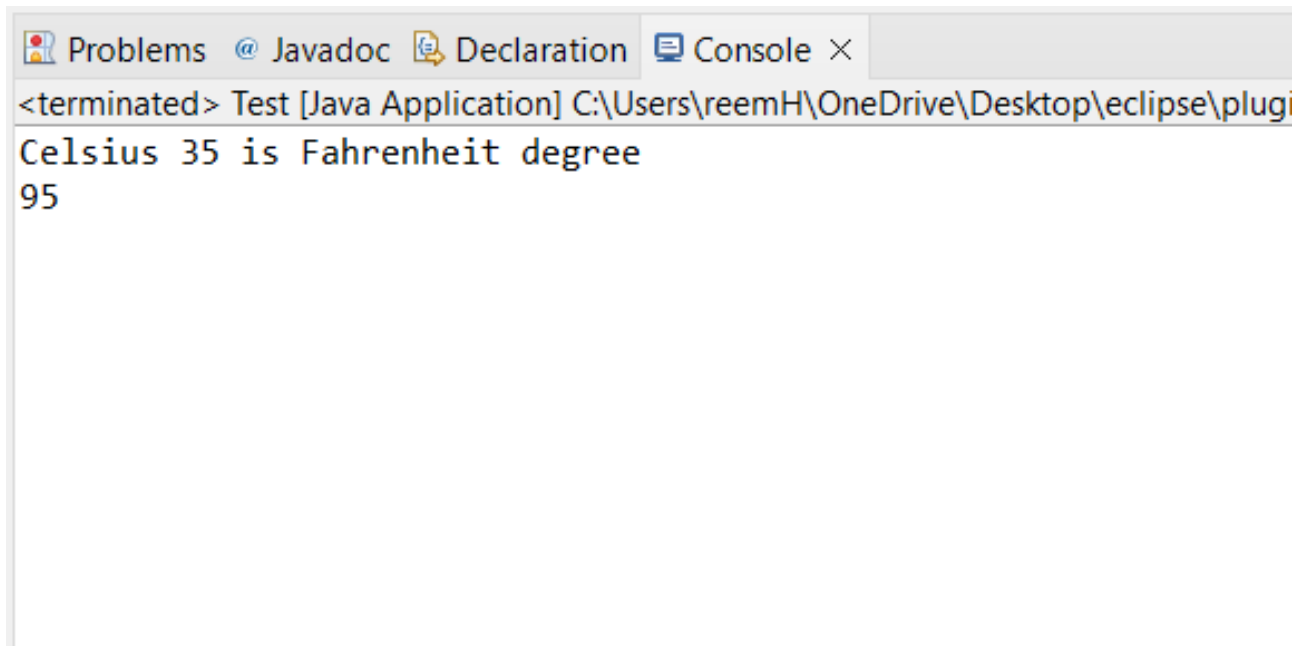
3.6 Output



3.7 Example 4

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println("Celsius 35 is Fahrenheit degree ");  
        System.out.println(35 * 9 / 5 + 32);  
    }  
}
```

3.8 Output



4 Conclusion

This lab was very clear and helpful. As an introduction to the course, it helped us to get familiar with the programming environment and Java syntax.