CSE 2340 - SD1 Lab Report - 1

Roll: C243046 Section: 3BM

- The Steps I followed to Setup Java IDE on my pc:
- 1) Installing Java Development Kit (JDK).
- 2) Downloading and Installing the IDE (intellij idea community edition).
- 3) Configuring the IDE:
 - a) Opening IntelliJ.
 - b) Going to File > Project Structure > SDKs.
 - c) Clicking + and add the JDK path.
 - d) Under Project, setting the default Project SDK and language level.
- Running a program that takes my name as input and prints it on the console.

 Running at least one program for each of the topics listed from the W3Schools blog.

1. Java output/print:

☑ This code just gives output.

2. Java variables:

☑ This code shows basic Java variables use.

3. Java Data Types:

☑ This code shows Java Data Types.

4. Java Type Casting:

☑ This code shows basic Java Type Casting where we can change a data type to another data type

5. Java Operators:

☑ This simple code shows all the Java Operators and their use. .

6. Java String:

```
| String firstName = "Hasan";
| String firstName = "Al Faozan";
| System.out.println(firstName + " " + lastName);
| String lastName = "Al Faozan";
| System.out.println(firstName + " " + lastName);
| String lastName = "Al Faozan";
| System.out.println(firstName + " " + lastName);
| String lastName = "Al Faozan";
| System.out.println(firstName + " " + lastName);
| System.out.println(firstName +
```

☑ This code gives String output.

7. Java Math:

```
@ 24 Q 6$
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   🕑 test.java 🗵
          public class test {
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              public static void main(String[] args) {
                  int isMax = Math.max(x,y);
                  System.out.println(isMax);
                  int isMin = Math.min(x,y);
                  System.out.println(isMin);
                  double theSqrt = Math.sqrt(x);
                  System.out.println(theSqrt);
                  double theAbs = Math.αbs(z);
                  System.out.println(theAbs);
                  double thePow = Math.pow(x,y);
                  System.out.println(thePow);
```

☑ This code shows all the math functions and their use in java.

8. Java If...Else:

☑ This Java code compares two integers using if...else.

9. Java Switch:

☑ This code shows the basic use of Switch functions in Java

10. Java While Loop.

☑ This code shows simple while loop use in Java.

11. Java For Loop:

```
Users\USER\.jdks\openjdk-24.0.2+12-54\bin\java.exe *-javaagent:C:\Program Files\JetBrains\IntelliJ I
```

12. Java Break and Continue:

☑ This code shows Break and Continue statements used in Java.

13. Java Arrays.

☑ This code shows simple use of Array in Java.