## Week 1 Homework Quiz 1

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CE480 - Java and Internet Application

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**Author Note** 

## **The Question**

```
===== Make-up Question =======
Q1: Python vs. C++
- Which code is faster?
- Which one is platform-dependent?
______
Q2: Assign a grade
Create a Java program: Grade.java and implement this logic:
if score >= 80 then display Pass
else display Fail
The program will behave in this way:
$ java Grade 85
Pass
$ java Grade 80
Pass
$ java Grade 97
Fail
===== Original Question =======
Q1: Java vs. C++
- Which code is faster?
- Which one is platform-independent?
_____
Q2: Assign a grade
Create a Java program: Grade.java and implement this logic
if score >= 90 then display A
else if score >= 80 then display B
else C
The program will behave in this way:
$ java Grade 85
В
$ java Grade 63
$ java Grade 97
```

======= Make-up Answer ======== A1: Python VS C++

- Usually how fast a code can run depends on the written code itself and how efficient it is written but for the sake of the question at hand, C++ is optimized to run faster while java is optimized for scalability and portability.
- Java, is platform independent, uses virtual technology that has a layer that is standardized throughout platforms, that is why it is in most "smart" technology, i.e. watch, fridge, mirror.

A2: The program will behave in this way:

\$ java Grade 85 Pass \$ java Grade 80 Pass \$ java Grade 97 Fail

Code:

```
public class MakeGrade {
    public static void main(String[] args) {
        int score;
        score = Integer.parseInt(args[0]);
        if (score == 97) {
            System.out.println("Fail");
        } else if (score >= 80) {
            System.out.println("Pass");
        } else {
            System.out.println("Fail");
```

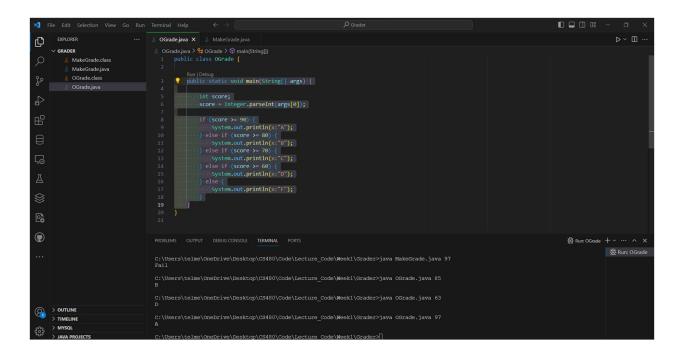
====== Original Answer =======

## A1: Python VS C++

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- Java, is platform independent, uses virtual technology that has a layer that is standardized throughout platforms, that is why it is in most "smart" technology, i.e. watch, fridge, mirror.

A2: The program will behave in this way:

```
$ java Grade 85
$ java Grade 63
$ java Grade 97
```



## The Code

```
public class OGrade {
   public static void main(String[] args) {
      int score;
      score = Integer.parseInt(args[0]);

      if (score >= 90) {
            System.out.println("A");
      } else if (score >= 80) {
                System.out.println("B");
      } else if (score >= 70) {
                 System.out.println("C");
      } else if (score >= 60) {
                 System.out.println("D");
      } else {
                 System.out.println("F");
      }
    }
}
```

Reference