

Week 1 Homework Q23

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CE480 - Java and Internet Application

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Author Note

The Question

Java IDE

- Process
 1. [Set up Java in Visual Studio Code](#)
 - You can also use an IDE you are more familiar with.
 - However, a common IDE is easier to support.
 2. [Summation of a sequence of numbers](#)
- References
 - [Microsoft Visual Studio Code](#)

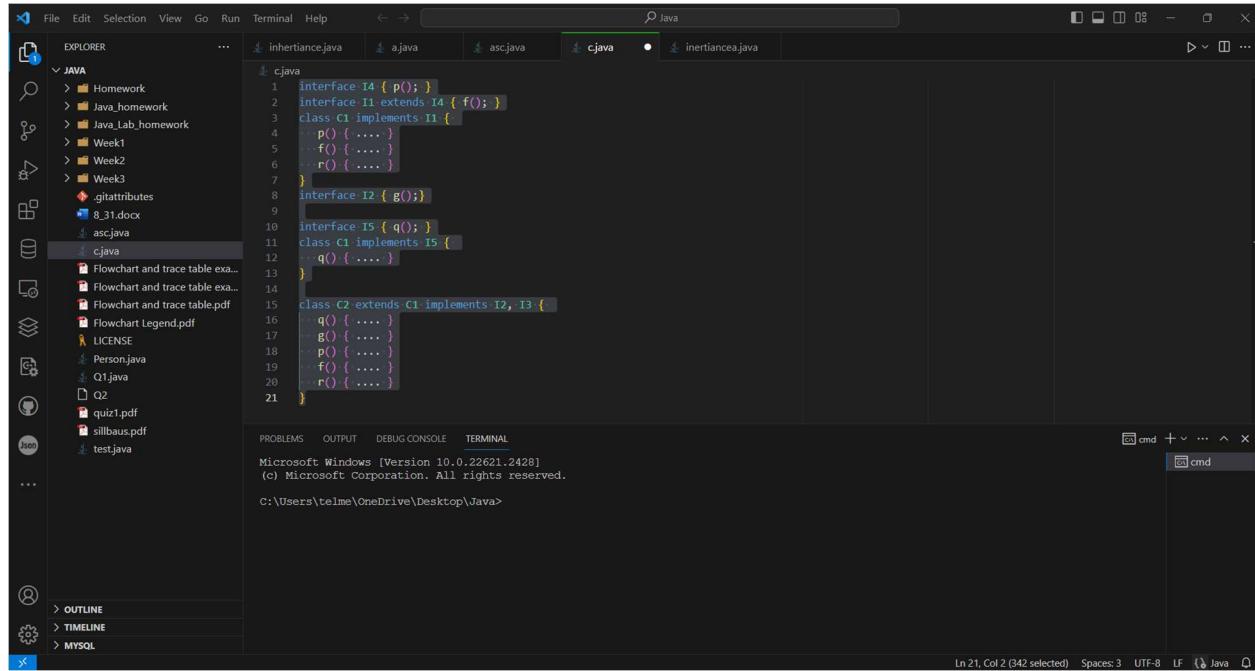
An Integrated Development Environment aka IDE is basically a text editor with the extra tools made for coding. The best way to select one to use is to keep in mind a few things. An important thing to check is to see how popular a given IDE is in developer circles this is not just a simple fitting in the crowded ideal but an important consideration because no matter how good a single developer might be in coding his or her own tools the simple fact is that taking time to make your own tools to make something is a massive time sink.

The most popular one to date is Visual Studio, not because the developer is Microsoft but because of the massive community-based support.

Another consideration is what I am going to do with it. While VS has a mass of extension that virtually can make it so that any coding language can be used, specifically made IDE have a certain install and use charm to them like PyCharm for python, Dreamweaver for HTML, Android Studio for app development.

I am going to use Visual Studio because I am confident and more familiar with it.

My Visual Studio Setup



2. Summation

```
public class sums {  
    public static void main(String[] args) {  
        if (args.length == 0) {  
            System.out.println("Please provide numbers to sum as command  
line arguments.");  
            return;  
        }  
  
        int total = 0;  
        for (String arg : args) {  
            try {  
                total += Integer.parseInt(arg);  
            } catch (NumberFormatException e) {  
                System.out.println("'" + arg + "' is not a valid  
integer.");  
                return;  
            }  
        }  
  
        System.out.println("Sum: " + total);  
    }  
}
```

2.2 Summation ScreenShot

The screenshot shows a Java IDE with a project named 'SUMCALCULATOR'. The main file, 'sums.java', contains the following code:

```
1 public class sums {  
2  
3     Run | Debug  
4     public static void main(String[] args) {  
5         if (args.length == 0) {  
6             System.out.println("Please provide numbers to sum as command line arguments.");  
7             return;  
8         }  
9  
10        int total = 0;  
11        for (String arg : args) {  
12            try {  
13                total += Integer.parseInt(arg);  
14            } catch (NumberFormatException e) {  
15                System.out.println("'" + arg + "' is not a valid integer.");  
16                return;  
17            }  
18        }  
19  
20        System.out.println("Sum: " + total);  
21    }  
22 }  
23
```

The terminal output shows the following commands and results:

```
C:\Users\telme\OneDrive\Desktop\CS480\Code\Lecture_Code\Week1\SumCalculator>javac sums.java  
C:\Users\telme\OneDrive\Desktop\CS480\Code\Lecture_Code\Week1\SumCalculator>javac sums.java  
C:\Users\telme\OneDrive\Desktop\CS480\Code\Lecture_Code\Week1\SumCalculator>java sums  
Please provide numbers to sum as command line arguments.  
C:\Users\telme\OneDrive\Desktop\CS480\Code\Lecture_Code\Week1\SumCalculator>java sums 1 2 3  
Sum: 6  
C:\Users\telme\OneDrive\Desktop\CS480\Code\Lecture_Code\Week1\SumCalculator>
```

The status bar at the bottom indicates the current line is 11, column 18, with 4 spaces, UTF-8 encoding, and LF line endings. The system tray shows a temperature of 21°C and the date 10/13/2023.

Reference

Cheng, H. (2023, October 13). *Summation of a sequence of numbers*. Introduction to Java.
https://hc.labnet.sfbu.edu/~henry/sfbu/course/introjava/intro/slide/exercises1.html#sum_seq

https://github.com/Georgycas/CE350-Java-and-Internet-Applications/tree/main/Code/Lecture_Code/Week1/SumCalculator