Week 1 Homework Q23

Telmen Enkhbold

San Fransico Bay University

CE480 - Java and Internet Application

Dr. Chang, Henry

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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

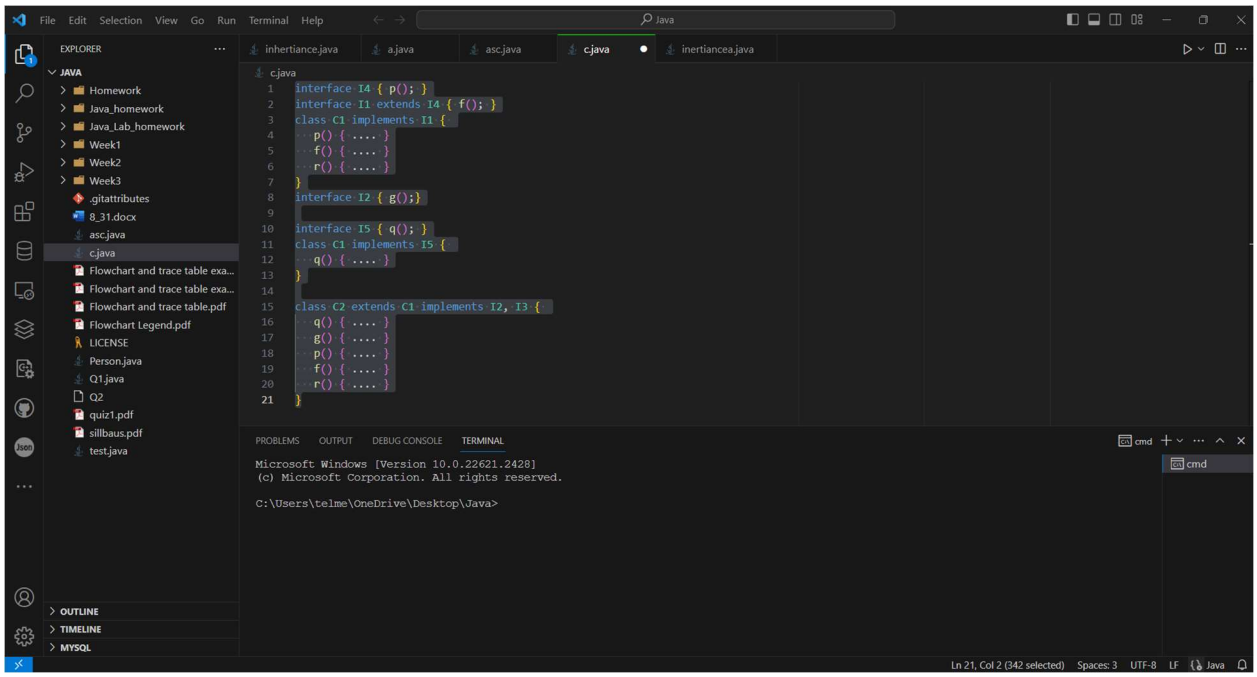
An Integrated Development Environment aka IDE is basically a text editor with the extra tools made for coding. The best way to select one to use is to keep in mind a few things. An important thing to check is to see how popular a given IDE is in developer circles this is not just a simple fitting in the crowed 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.

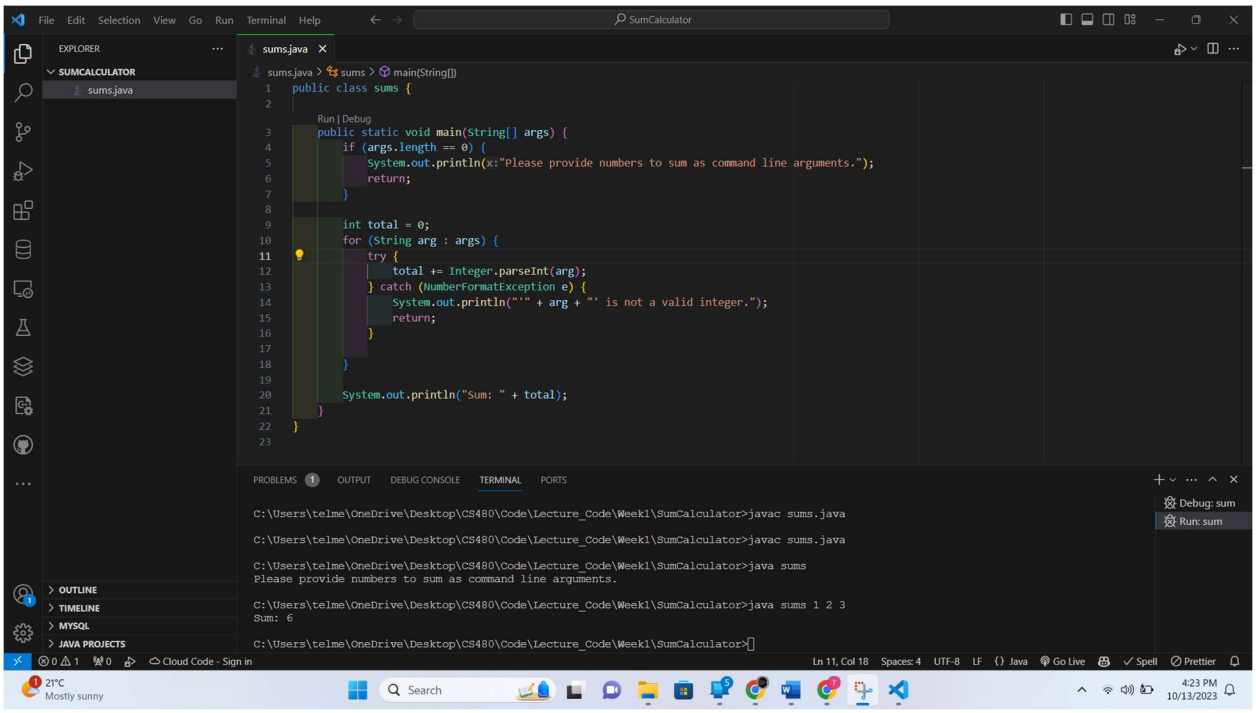
My Visual Studio Setup



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



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