Week 1 Homework Q23

Telmen Enkhbold

San Fransico Bay University

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Dr. Chang, Henry

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# Author Note

# The Question

Java IDE

* + Process
    1. [Set up Java in Visual Studio Code](https://code.visualstudio.com/docs/languages/java)
       - 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](https://hc.labnet.sfbu.edu/~henry/sfbu/course/introjava/intro/slide/exercises1.html#sum_seq)
  + References
    1. [Microsoft Visual Studio Code](https://hc.labnet.sfbu.edu/~henry/sfbu/course/introjava/vsc/slide/index_slide.html)

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

A screenshot of a computer

Description automatically generated

1. 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  
A computer screen shot of a program

Description automatically generated

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