**STYLE GUIDES**

Last semester, I learned about Java. I found variables and functions to be fairly straight forward, and inheritance and polymorphism were difficult to grasp. To me, Java is a very verbose language and it felt overwhelming at times. I remember learning Basic when I was in my early teens, and then trying to learn C++, and having similar difficulties. This semester, I am learning the Kotlin language. I’ve already found that Kotlin requires less code, and it is more concise. These 2 reasons alone make me think that I will have more success learning Kotlin and be more comfortable with the language while doing so. Being that I am fairly new to Kotlin, I haven’t found anything difficult or challenging to understand. Remembering back to last semester, I think that I could improve my coding practice by avoiding the use of redundant code. Also, I think that it would be good practice for me to allow myself the ability to accept making mistakes and learning from those mistakes. Most of my experience with Java last semester was spent feeling overwhelmed and in a panic state, which really took away from my focus and ability to learn Java.

**Example of my Java code:**

This program asks the user to enter a number, and that number is doubled in the output.

Import.java.util.Scanner;

Public class DoubleNum {

Public static void main(String[] args) {

Scanner scnr = new Scanner(System.in);

Int x;

System.out.println(“Enter x: “);

X = scnr.nextInt();

System.out.println(“ x doubled is: “ + (2\*x));

}

}

**Example of my Kotlin Code:**

This program creates a birthday message in Kotlin

fun main() {  
    val age = 24  
    val layers = 5  
    printCakeCandles(age)  
    printCakeTop(age)  
    printCakeBottom(age, layers)  
}  
  
fun printCakeCandles(age: Int) {  
    print (" ")  
    repeat(age) {  
          print(",")  
    }      
    println() // Print an empty line  
  
    print(" ") // Print the inset of the candles on the cake  
    repeat(age) {  
        print("|")  
    }      
    println()  
}  
  
fun printCakeTop(age: Int) {  
    repeat(age + 2) {  
        print("=")  
    }  
    println()  
}  
  
fun printCakeBottom(age: Int, layers: Int) {  
    repeat(layers) {  
        repeat(age + 2) {  
            print("@")  
        }  
        println()  
    }      
}