

# Day 12-2 Assignment

## 1. Task 1: Version Control Systems

1. Create a git repository contains a C++ code that has a function *getSum* takes a vector as a parameter and returns the summation of the elements inside the vector.
2. Inside the main function create a vector contains 10 integers and print the output of *getSum* function.
3. Publish this repository to GitHub.
4. Then create 2 branches and add to them the following:

### **First Branch:**

Add another function *getAverage* that takes a vector as an argument and returns the average of this vector. And print the output of this function in the main function after printing *getSum* function.

### **Second Branch:**

Add another function *getMin* that takes a vector as an argument and returns the minimum element in the vector. And print the output of this function in the main function after printing *getSum* function.

5. Merge first branch to the main branch.
6. Merge second branch to the main branch. (Resolve conflicts if needed)

Submission:

- Link to the GitHub repository
- Text document containing a brief about the steps you did

## 2. Task 2: Intro to Build Systems

1. Clone the [Github repo https://github.com/ahmedHusseinF/make-starter](https://github.com/ahmedHusseinF/make-starter)
2. Based on the simple calculator project, create a CMakeLists.txt file
3. Configure the CMake file to build the project into an executable
4. Try running the executable and make sure it works.

Submission:

- Submit the CMakeLists.txt file only

**Submission Deadline: Friday 24th of February 2023**