Computer Programming I Presentation Guide

***Step 1.*** *Welcome everyone and greet* ***Dr. Oluwatoyin Adelakun Adeyemo***

Good day, **Dr. Oluwatoyin Adelakun Adeyemo** and welcome to this presentation

***Step 2.*** *Introduce yourself, the group (Group 6 & members by name)*

My name is Solomon Ayuba, a member of the **Data Dynamo Group**. We’re a team of 5, from Data Science Department 200 Level. With me is*Okon Enang, Abel Odemudia, Christiana Richards, and Olufemi Adesope.* And together we’ll be making this presentation.

Let me begin by introducing the project and the approach we employed in reaching this solution. Our program is called ***(Interactive Student Record System v1.0)***. As the name implies it’s a simple Student Record System with functionalities as outlined in the assessment’s question and this readme file.

***Step3.*** *Introduce the project* ***(Interactive Student Record System v1.0)****, the approach employed in solving the project (github, the project questions, )*

For the purpose of inclusiveness, teamwork, efficiency and realtime collaboration we used Github as a repository for this project.

We also employed the Modular programming approach and broke down our codes into 17 parts, 2 of which is the Heading, where we declared the libraries needed for the code, then, an array of variable declarations using the Struct data type to handle multiple student entry. The other 14 parts are Functions that serves as building blocks to the last Main function. In-between, we included detailed comments for enhanced code readability, guidiance and good practice.

With that being said, please grab a cup of coffe as you enjoy our presentation, Dr. **Okon Enang, Over to you:**

# Time Allocation

## Part A: 22 minutes

**Introduction (**3 minutes**):** Solomon

**Functions** **1-5 (**6 minutes**):** Okon

**Functions 6-10 (**6 minutes**):** Able

**Functions 11-17 (**4 minutes**):** Solomon

### Summary

**Solomon:** 7 minutes

**Okon:** 6 minutes

**Abel:** 6 minutes

**Christine:** 4 minutes

**Olufemi:** 4 minutes

**TOTAL: 27 minutes**

## Part B: 8 minutes

**Options 1-5 (**4 minutes**):** Christine

**Options 6-10 (**4 minutes**):** Olufemi

## Detailed Time Allocation

### Solomon

**Introduction:** 3 minutes

**Functions 11-17 (**4 minutes**):** (searchStudent, calculateAverageMarks, getTotalMarks, compareAscending, compareDescending, sortAndDisplayStudents, main):

### Okon

**Heading section:** 1 minute

**Student Struct:** 1 minute

**labelCourses function:** 1 minute

**inputStudentData function:** 1 minute

**addStudent function:** 2 minutes

### Abel

**removeStudent function:** 1 minute

**modifyStudent function:** 1 minute

**displayStudentResults function:** 1 minute

**saveToFile function:** 2 minutes

**loadFromFile function:** 1 minute

### Christine

**Option** 1**- 5:** 4 minutes

**Order (1, 4, 3, 2, 5):**

1. Add a New Student – (2 students)

4. Display all Students

3. Modify Existing Student Record

2. Remove Existing Student

5. Search for Existing Student by their Roll Number

### Olufemi

**Option 6 – 10:** 4 minutes

**Order (6, 7, 8, 10, 9, 4, 10):**

6. Display Average Marks of all Students per course

7. Sort and Display Students by their Marks

8. Save Student Record to File

10. Quit (to save file)

9. Load Student Record from File

4. Display all Students

10. Quit (final)