

## **WEEKLY INTERNSHIP ACTIVITIES & ASSIGNMENT**

Dear students, we will be sharing a weekly schedule and the activities which have to be completed by you as per the stipulated time.

### **ACTIVITY:**

**Title:** Variable Argument Function Implementation Lab

#### **Description**

Students will implement functions using variable argument lists (`stdarg.h`) to understand flexible function design similar to printf-like behaviour.

#### **Objectives**

- Understand variable argument list concepts
- Practice using `va_list`, `va_start`, `va_arg`, and `va_end`
- Explore real-world flexible function scenarios
- Strengthen understanding of function arguments

#### **Reference/Source Code/Links:**

- <https://en.cppreference.com/w/c/variadic>
- C Programming `stdarg.h` documentation:  
<https://pubs.opengroup.org/onlinepubs/009695399/basedefs/stdarg.h.html>

#### **Deliverables**

- Source code implementing a variadic function
- Program output examples
- Short explanation (400–600 words)

## **ASSIGNMENT:**

**Title:** File Handling Fundamentals — Structured Data Logger

### **Description**

Students will create a program that reads and writes structured data to files using `fopen()`, `fprintf()`, `fscanf()`, `fgets()`, and `fputs()` while working with different file modes.

### **Objectives**

- Understand basic file handling concepts
- Practice file input/output functions
- Explore file modes (`r`, `w`, `a`)
- Improve structured data handling skills

### **Reference/Source Code/Links:**

- <https://en.cppreference.com/w/c/io>

### **Deliverables**

- Source code demonstrating file operations
- Sample input/output files
- Short explanation (400–600 words)

\*Steps to create Google link

- Go to Google drive
- Click on New -> New Folder (The name of the folder must be the name of your internship (Eg: Artificial Intelligence - Entry Level)) and click on Create
- Create a sub folder inside the main folder and upload your assignments and activities files.
- Share the main folder by clicking on the 3 dots on the right hand side and placing the cursor on the share option
- Provide access by adding Edutainer email into search box and click on Done