**ASSIGNMENT 001 DATE: 23/08/2023**

**TITLE: GIT/GITHUB PRACTICALS TUTOR: G-WHYTE**

**Q-001:** LIST OUT DIFFERENT PARADIGMS OF PROGRAMMING LANGUAGE.

1. **Imperative Programming:** Imperative programming consists of sets of detailed instructions that are given to the computer to execute in a given order. It's called "imperative" because as programmers we dictate exactly what the computer has to do, in a very specific way.

## Procedural Programming: In procedural programming, the user is encouraged to subdivide the program execution into functions, as a way of improving modularity and organization.

## Functional Programming: In functional programming, functions are treated as **first-class citizens,** meaning that they can be assigned to variables, passed as arguments, and returned from other functions.

## Declarative Programming: Declarative programming is all about hiding away complexity and bringing programming languages closer to human language and thinking. It's the direct opposite of imperative programming in the sense that the programmer doesn't give instructions about how the computer should execute the task, but rather on what result is needed.

## Object-Oriented Programming: The core concept of OOP is to separate concerns into entities which are coded as objects. Each entity will group a given set of information (properties) and actions (methods) that can be performed by the entity.