# **Task 6 – Theory**

“You are required to do some research and describe in at least 150 words, **two** of the following programming paradigms. **Your description should include excerpts from your code as examples.** If and only if a paradigm you choose is not used in your code, you must include other Python example code sample that explains the chosen paradigm.

* • Imperative
* • Functional
* • Procedural
* • Object-oriented programming”

There are many types of Programming Paradigms, two of these being Imperative and ProceduralProgramming.

Imperative Programming is a style of computer programming which contains a list of instructions, that the program would be considered as lines of code, which would be given to the computer to execute line by line. Imperative Programming is considered as an inefficient style of programming due to how this style struggles to solve complex problems. This is an example of imperative programming inside the program:

Graphical user interface, text, application

Description automatically generated

Procedural Programming, on the other hand, is a type of computer programming style is a deviation of imperative programming as it makes use of structured procedures, which are also known as functions. These functions are what tell the computer system to execute another list of instructions line by line before going back to executing the main lines of code inside the program. This is an example of procedural programming inside the program:

