



1.2.4 Programming Paradigms

1. When developing a program, developers can use different programming paradigms.

a) What is mean by a programming paradigm?

[1 mark]

- A way/style/approach of classifying or structuring programming techniques/programs

b) Explain **two** differences between imperative and declarative programming.

[4 marks]

- Imperative programming describes how a program should reach an outcome.
- Declarative programming describes what result is wanted rather than how to achieve it.
- Imperative programming uses statements to control the flow of execution.
- Declarative programming does not explicitly describe the control flow used to achieve the result.
- Imperative programs can change the state of a program.
- Declarative programming focuses on describing the desired result rather than explicitly changing program state

c) State **three characteristics** of procedural programming.

[3 marks]

- Sequence
- Selection
- Iteration

