Section B

You are advised to spend no more than **20 minutes** on this section.

Enter your answers to **Section B** in your Electronic Answer Document.

You **must save** this document at regular intervals.

The question in this section asks you to write program code
starting from a new program/project/file.

You are advised to **save** your program at regular intervals.

| 0 | 5 | Write a program that asks the user how many numeric digits they would like to enter and then gets the user to enter that number of numeric digits.

The program should calculate and display the number of times the most frequently entered numeric digit was input.

> **Example**
>
> If the user says they are going to enter four digits and then enters the digits 3, 4, 5 and 3, the program should display the value 2 as the most frequently entered digit was 3 and that digit was entered twice.

If more than one numeric digit had the same frequency and was the most frequently entered then instead of displaying the frequency, a message saying "`Data was multimodal`" should be displayed.

A numeric digit is 0, 1, 2, 3, 4, 5, 6, 7, 8 or 9

You may assume that the number that the user enters to state how many numeric digits there will be and the numeric digits entered by the user are all valid.

Evidence that you need to provide
Include the following evidence in your Electronic Answer Document.

| 0 | 5 |.| 1 | Your PROGRAM SOURCE CODE.

[12 marks]

| 0 | 5 |.| 2 | SCREEN CAPTURE(S) showing the result of testing the program by entering:

- the number 6 then the numeric digits 0, 1, 2, 1, 2 and 1
- the number 5 then the numeric digits 0, 1, 2, 2 and 1

[1 mark]