

Section B

Type your answers 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**.

- Save your program/project/file in its own folder/directory.
 - You are advised to save your program at regular intervals.
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Question 1

Create a folder/directory **Question1** for your new program.

Write a two player guessing game.

The game should first ask Player One to choose a whole number between 1 and 10 (inclusive). Player Two should then be asked to guess the number chosen by Player One. Player Two gets up to five attempts to guess the number.

Player Two wins the game if they correctly guess the number and the computer should display the text `"Player Two wins"`.

However, if Player Two is unable to guess correctly after 5 tries, Player One wins the game and the text `"Player One wins"` is displayed.

Table 1

Identifier	Data type	Purpose
NumberToGuess	Integer	Stores the number entered by Player One
NumberOfGuesses	Integer	Stores the number of guesses that Player Two has made so far
Guess	Integer	Stores the most recent guess made by Player Two

What you need to do

Write a program and include variables from **Table 1** plus any other that you feel are needed.

Test the program by conducting the tests **Test 1** and **Test 2**.

Save the program in your new **Question1** folder/directory.

Test 1

Test that your program works correctly by conducting the following test:

- Player One enters the number 0
- Player One enters the number 11
- Player One enters the number 5
- Player Two enters a guess of 5

Test 2

Test that your program works correctly by conducting the following test:

- Player One enters the number 6
- Player Two enters guesses of 1, 3, 5, 7, 10

Evidence that you need to provide

Include the following in your Electronic Answer Document.

1 1	Your PROGRAM SOURCE CODE.	(13 marks)
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1 2	SCREEN CAPTURE(S) showing the result of Test 1 .	(4 marks)
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1 3	SCREEN CAPTURE(S) showing the result of Test 2 .	(3 marks)
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