Guess the word

# Worked example and code snippets .

Password checker

| 1  2  3  4  5  6  7  8  9  10 | stored\_pass = "password"  password = ""  pass\_mismatch = stored\_pass != password  while pass\_mismatch:  print("Enter your password:")  password = input()  pass\_mismatch = stored\_pass != password  print("Access granted") |
| --- | --- |

Reveal the length of a word

| 1 | len(word) |
| --- | --- |

Reveal the first letter of a word

| 1 | word[0] |
| --- | --- |

# Task .

Use previous programs and the code above to support you in creating a ‘**guess the word**’ game.

Your ‘guess the word’ game should:

* Display how many letters are in the word
* Allow for five guesses:
  + After the first guess, reveal the first letter of the word
  + After the third guess, reveal the last letter of the word
  + After the fifth guess, end the game
* If the guess is correct, it should display “Correct, you win!”
* If the guess is incorrect, it should display “Incorrect, you lose!”

# Example output .

The table below reveals the example output for the game based on specific inputs.

The word to guess is sandwich

| **Example** |  |
| --- | --- |
| **Note:** Given the input you see in this sample interaction, this is the output your program should produce. | |
| A prompt is displayed to the user. | Guess the word: |
| The user enters a word to guess and the program checks this is the correct word. It isn’t so the number of guesses is incremented by one. | cheese |
| The number of guesses is now one, so a hint is displayed and the user is prompted to guess the word. | The first letter of the word is s  Guess the word: |
| The user enters a different word. | cucumber |
| The number of guesses is now two. The user is prompted to make another guess. | Guess the word: |
| The user enters a different word. | fish |
| The number of guesses is now three, so a hint is displayed and the user is prompted to make another guess. | The last letter of the word is h  Guess the word: |
| The user enters a different word. This word matches the word to guess, so the loop now terminates. | sandwich |
| The final message is displayed to the user. | Correct, you win! |

# Explorer task .

If you change the length of the word to guess, does your program still display the last letter after the third guess?

If the answer is no, think about how you could adjust this part of your program so that it always displays the last letter.