1. IsWordGuessed(secretWord,lettersGuessed) function
2. The function has an output of TRUE since every character in secretWord is equal to every string in the list named lettersGuessed, in strict order.

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1. The function has an output of FALSE since not every character, in sequence, in secretWord is equal to the strings in list named lettersGuessed.

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1. The function has an output of False, again, because the character in secretWord , “a”, was compared to the first string in lettersGuessed “apple”, which they are not equal.

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1. getGuessedWord(secretWord,lettersGuessed) function
2. the function has an output of ‘\_ \_ \_ \_ \_’ because every character in secretWord was compared, to the elements in the list named lettersGuessed, which was empty. If a character in secretWord is not equal to an element in lettersGuessed, that character in secretWord is replaced with a “\_”.

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1. When one of the elements in lettersGuessed was equal to a character in secretWord, the output would be a string consisting of letters from lettersGuessed that is equal in secretWord and “\_” since some of characters in secretWord was not found in lettersGuessed.

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1. Output is similar to that in letter A because the first element in lettersGuessed is “apple” which has a length of 5. The function only compares every character in secretWord, having a length of one, to the elements in lettersGuessed, which must also have a length of one (“a” is not equal to “apple”)

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1. Here, the output is ‘apple’ since the elements in lettersGuessed can be found in secretWord

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1. getAvailableLetters(lettersGuessed) function
2. Since the list named lettersGuessed was empty ([]) or there were no elements listed and if compared to the string named lowerletters, consisting of characters that came from the English alphabet from a to z in lowercase, the output would be the string lowercase without any “\_”.

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1. Here, the output was a string the consists of characters from a to z, but some are replaced with a “\_” because some of the elements in the list lettersGuessed was found in or similar the characters in the string lowerletters. Thus, if a character in lowerletters is equal to an element in lettersGuessed, that character in lowerletters will be replace with a “\_”.

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1. Here, some of the encoded elements in the list lettersGuessed are words. Just like in the previous function, characters in lowerletters have a length of 1 and if compared to an element in lettersGuessed with a length more than one, the condition to replace the character in lowerletter with a “\_” would not be satisfied.

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1. Hangaroo() Function
2. Here, the function Hangaroo() was called in the Python console and the Hangaroo game began since it the Python console asks to guess or encode a letter. A screenshot of a computer

   Description automatically generated
3. Here, a letter was encoded in the Python console and it turns our that it was a wrong a guess, meaning the letter encoded was not found in the secret word. Hence, the user has to encode or guess again a letter and the mistake was also counted as seen in the output on the Python console. It can also be seen that the letters available was decreased or replaced with a “\_” or the letter you have guessed was removed from the list of available letters that you have left for guessing.

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1. Here, it can be seen that once the user encodes again the same letter, it would have an output saying that you have already guessed that, and it was not counted as a mistake

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1. Here, if you encode a word, the output would say that you have an invalid input since the program is asking for a letter, which has only a length of 1.

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1. Here, you can see that the letters encoded by the user was correct and the blanks from before was replaced with the letters that you have guessed correctly, which can be seen in the output.

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1. Once you have guessed all of the letters correctly, the output would say that you have finally guessed the word and would display the word that you have guessed. The program then finally ends here.

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