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Mid Term Project Idea

I am planning to create Hangman in Python. In order to do this, I would need to manipulate strings, as well as data structures, namely lists and tuples.

Essentially, how the project would go is:

1. There would have to be a tuple of words that can be chosen from that the program would randomly select from every time the program starts.
2. Once the word is selected, the word would have to be split down into individual letters that would be stored in a list.
   1. To do this, I think I would use a for loop and append every element in the string to an empty list.
3. The program would print “There are *x* many letters in the word.” Alternatively, it could print an amount of underscores equal to the length of the word.
4. The user would guess letters.
   1. There would be a check in place to make sure that there is no more than one character being inputted.
5. If the user were to correctly guess a letter, then it would either print however many of the letter there are in the word or replace the underscores with that letter.
6. If the user were to incorrectly guess a letter, then the program would print “Incorrect letter! Amount of guesses left: *(number of guesses)*”

I think a general outline of the program itself would be look something like this:

def hangman():

guesses = 6

word = findWord() #chooses a word from a tuple and puts each letter into a list, returns the list

blank = returnEmpty(word) #returns empty underscores

while True:

blankString = stringify(blank)

print(blankString) #turns blank into a string and prints it

letter = str(input(“Guess a letter: “))

if len(letter) > 1:

print(“Must be one character!”)

continue

if letter in blankString: #something like this

lettercheck = list(checkLetter(letter, word)) #checks to see if the letter is in the word, and returns the indices in which it is

for i, index in enumerate(lettercheck):

blank[index] = letter

# ^ this part probably needs some revision

else:

guesses -= 1

if guesses > 0:

print(“Wrong! “ + str(guesses) + “ guesses left.”)

else:

print(“Game over! The word was: “ + str(word))

break