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Hangman Problem (word guessing)
import random
def hangman():
  word = random.choice(["python", "developer", "hangman", "algorithm",
"variable", "function", "loop", "array", "object", "class", "inheritance", "compile", "debugging", "sy
ntax", "framework", "database", "concurrency", "server", "interface", "pointer"])
incorrect, max_incorrect = set(), 0, 6
  while incorrect < max_incorrect:
     # Display the word with unguessed letters as underscores
display = " ".join([c if c in guessed else "_" for c in word])
     print(f"\nWord: {display}\nIncorrect guesses left: {max_incorrect - incorrect}")
     if "_" not in display: # Check if the word is fully guessed
print(f"\nCongratulations! You've guessed the word: {word}")
                                                                      return
     guess = input("Guess a letter: ").lower()
     if guess in guessed:
       print("You already guessed that letter.")
elif guess in word:
                          guessed.add(guess)
else:
       guessed.add(guess)
incorrect += 1
  # If max_incorrect is reached, the player loses
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print(f"\nSorry, you've run out of guesses. The word was: {word}")

Start the game
print("Words: python,developer,hangman,algorithm,variable,function,loop,array,object,class,inheritance,compile,debugging,syntax,framework,database,concurrency,server,interface,pointer")
hangman()
OUTPUT:
Words: python,developer,hangman,algorithm,variable,function,loop,array,object,class,inheritance,compile,debugging,syntax,framework,database,concurrency,server,interface,pointer
Word:
Incorrect guesses left: 6
Guess a letter: v
Word:
Incorrect guesses left: 5
Guess a letter: f
Word:
Incorrect guesses left: 4
Guess a letter: d
Word: d
Incorrect guesses left: 4
Guess a letter: a

Word: d a _ a _ a _ _

Guess a letter: t

Incorrect guesses left: 4

Word: d a t a _ a
Incorrect guesses left: 4
Guess a letter: a
You already guessed that letter.
Word: d a t a _ a
Incorrect guesses left: 4
Guess a letter: b
Word: d a t a b a
Incorrect guesses left: 4
Guess a letter: s
Word: databas_
Incorrect guesses left: 4
Guess a letter: e
Word: database
Incorrect guesses left: 4
Congratulations! You've guessed the word: database
=== Code Execution Successful ===