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import random
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def choose word():
  words = ["python", "hangman", "programming", "developer", "coding", "challenge", "intern"]
  return random.choice(words)
def display_word(word, guessed_letters):
  display = ""
  for letter in word:
     if letter in guessed letters:
       display += letter + " "
     else:
       display += " "
  return display.strip()
def hangman():
  max attempts = 6
  word_to_guess = choose_word().lower()
  guessed letters = []
  incorrect_attempts = 0
  print("**WELCOME TO HANGMAN**!")
  while True:
     print("\nWord:", display_word(word_to_guess, guessed_letters))
     guess = input("Guess a letter: ").lower()
     if guess.isalpha() and len(guess) == 1:
       if guess in guessed_letters:
          print("You've already guessed that letter. Try again.")
       elif guess in word_to_guess:
          print("Good guess !")
          guessed letters.append(guess)
       else:
          print("Incorrect guess ...")
          incorrect_attempts += 1
          guessed_letters.append(guess)
       if set(word_to_guess) == set(guessed_letters):
          print("\nCongratulations! You guessed the word:", word to guess)
          print("The word is:",word_to_guess)
         break
       elif incorrect attempts == max attempts:
          print("\nSorry, you've reached the maximum number of incorrect attempts.")
```