## HANGMAN GAME PROGRAM USING PYTHON

## CODE:

continue

```
import random
def choose_word():
  words = ["python", "hangman", "developer", "programming", "challenge"]
  return random.choice(words)
def display_word(word, guessed_letters):
  return " ".join([letter if letter in guessed_letters else "_" for letter in word])
def hangman():
  word = choose_word()
  guessed_letters = set()
  attempts = 6
  print("Welcome to Hangman!")
  while attempts > 0:
    print("\n" + display_word(word, guessed_letters))
    guess = input("Guess a letter: ").lower()
    if len(guess) != 1 or not guess.isalpha():
      print("Please enter a single letter.")
      continue
    if guess in guessed_letters:
      print("You already guessed that letter.")
```

```
guessed_letters.add(guess)
    if guess not in word:
      attempts -= 1
      print(f"Incorrect! You have {attempts} attempts left.")
    if all(letter in guessed_letters for letter in word):
      print("\nCongratulations! You guessed the word: " + word)
      return
  print("\nGame over! The word was: " + word)
if __name__ == "__main__":
  hangman()
OUTPUT:
Welcome to Hangman!
_____
Guess a letter: python
Please enter a single letter.
Guess a letter: p
Incorrect! You have 5 attempts left.
Guess a letter: h
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_h
Guess a letter: w
Incorrect! You have 4 attempts left.
_h
Guess a letter: h
You already guessed that letter.
_h
Guess a letter: d
Incorrect! You have 3 attempts left.
_h
Guess a letter: c
c h
Guess a letter: a
c h a
Guess a letter: I
chall
Guess a letter: e
challee
Guess a letter: n
challen_e

Guess a letter: g

Congratulations! You guessed the word: challenge