To proceed with Task 1: Hangman Game, I’ll create a Python script for a simple text-based Hangman game as described.

Here’s the implementation:

import random

# List of predefined words

words = ["apple", "banana", "grape", "orange", "mango"]

# Select a random word

word\_to\_guess = random.choice(words)

guessed\_word = ["\_"] \* len(word\_to\_guess)

attempts\_left = 6

guessed\_letters = []

print("Welcome to Hangman!")

print("Guess the word:", " ".join(guessed\_word))

while attempts\_left > 0 and "\_" in guessed\_word:

guess = input("Enter a letter: ").lower()

if not guess.isalpha() or len(guess) != 1:

print("Please enter a single valid letter.")

continue

if guess in guessed\_letters:

print("You already guessed that letter.")

continue

guessed\_letters.append(guess)

if guess in word\_to\_guess:

for index, letter in enumerate(word\_to\_guess):

if letter == guess:

guessed\_word[index] = guess

print("Correct! ", " ".join(guessed\_word))

else:

attempts\_left -= 1

print(f"Wrong! Attempts left: {attempts\_left}")

print(" ".join(guessed\_word))

if "\_" not in guessed\_word:

print("Congratulations! You guessed the word:", word\_to\_guess)

else:

print("Game Over! The word was:", word\_to\_guess)