## HANGMAN GAME

import random # Predefined list of words words = ["apple", "banana", "grapes", "mango", "orange"] word = random.choice(words) guessed\_letters = [] attempts = 6print("M Welcome to Hangman!") print("\_ " \* len(word)) while attempts > 0: guess = input("Guess 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: print(" Good guess!") else: print("X Wrong guess!") attempts -= 1 print(f"Attempts left: {attempts}") # Display the current state of the word display\_word = "" for letter in word: if letter in guessed\_letters: display word += letter + " " else: display word += " " print(display\_word) # Check if the word is completely guessed

if all(letter in guessed\_letters for letter in word):

```
print(" Congratulations! You guessed the word:", word)
     break
else:
  print(" • Game Over! The word was:", word)
TASK AUTOMATION WITH PYTHON
Method 1: Extract all email addresses from a .txt file
import re
input file = 'input.txt'
output file = 'emails.txt'
# Read text from file
with open(input_file, 'r') as file:
  text = file.read()
# Find all email addresses
emails = re.findall(r'[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}', text)
# Save emails to a new file
with open(output_file, 'w') as file:
  for email in emails:
     file.write(email + '\n')
print(f" { len(emails)} email(s) extracted to {output_file}.")
```

OR

Method 2: Scrape the title of a fixed webpage and save it

```
import requests
import re
url = "https://example.com" # Change this to your desired website
response = requests.get(url)
# Extract title using regex
title_match = re.search(r'<title>(.*?)</title>', response.text, re.IGNORECASE)
if title_match:
  title = title_match.group(1)
  with open("page_title.txt", "w") as file:
     file.write(title)
  print(f" Page title saved: {title}")
else:
  print("X Title not found.")
BASIC CHATBOT
def chatbot():
  print("im Hello! I am your simple chatbot. Type 'bye' to exit.")
  while True:
     user_input = input("You: ").lower()
     if user_input == "hello":
       print("Bot: Hi!")
     elif user_input == "how are you":
       print("Bot: I'm fine, thanks! How can I help you?")
     elif user_input == "bye":
       print("Bot: Goodbye! Have a nice day co")
       break
     elif user_input == "what's your name":
       print("Bot: I'm ChatBot 1.0!")
     elif user_input == "help":
```

```
print("Bot: You can say 'hello', 'how are you', 'what's your name', or 'bye'")
else:
    print("Bot: Sorry, I don't understand that.")
chatbot()
```