```
Goal: Simple text-based hangman game.
Python
import random
def hangman():
 words = ["apple", "banana", "grapes", "orange", "mango"]
 word = random.choice(words)
 guessed_letters = []
 attempts = 6
 print("Welcome to Hangman!")
 print("_ " * len(word))
 while attempts > 0:
   guess = input("\nGuess a letter: ").lower()
   if len(guess) != 1 or not guess.isalpha():
     print("Please enter only one 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:
     attempts -= 1
     print(f"Wrong guess! {attempts} attempts left.")
   display_word = "".join([letter if letter in guessed_letters else "_" for letter in word])
   print("Word:", " ".join(display_word))
   if "_" not in display_word:
     print("\n\ll Congratulations! You guessed the word:", word)
     break
 else:
   print("\n\ld You ran out of attempts. The word was:", word)
hangman()
M TASK 2: Stock Portfolio Tracker
Goal: Calculate total investment using predefined stock prices.
```

Python

```
# Simple Stock Portfolio Tracker
stock_prices = {
```

```
"AAPL": 180,
 "TSLA": 250,
 "GOOG": 140,
 "MSFT": 330
}
total_investment = 0
portfolio = {}
while True:
 stock = input("\nEnter stock symbol (or 'done' to finish): ").upper()
 if stock == "DONE":
   break
 if stock in stock_prices:
   quantity = int(input(f"Enter number of shares for {stock}: "))
   investment = stock_prices[stock] * quantity
   total_investment += investment
   portfolio[stock] = portfolio.get(stock, 0) + quantity
```

```
else:
   print("Stock not found in list!")
print("\nYour Portfolio Summary:")
for stock, qty in portfolio.items():
 print(f"{stock}: {qty} shares @ ${stock_prices[stock]} each")
print(f"\nTotal Investment Value: ${total_investment}")
M TASK 3: Task Automation Script
Example: Move all .jpg files from one folder to another.
Python
import os
import shutil
source_folder = "source_images"
destination_folder = "moved_images"
# Create folders if they don't exist
os.makedirs(source_folder, exist_ok=True)
os.makedirs(destination_folder, exist_ok=True)
for file in os.listdir(source_folder):
 if file.endswith(".jpg"):
```

```
shutil.move(os.path.join(source_folder, file), os.path.join(destination_folder, file))
   print(f"Moved: {file}")
print("I All .jpg files moved successfully!")

☑ To test this, create folders named source_images and moved_images in your project directory.

☑ TASK 4: Basic Chatbot

Goal: Rule-based chatbot with predefined replies.
Python
def chatbot():
 print("Chatbot: Hi! I'm your assistant. Type 'bye' to exit.")
 while True:
   user = input("You: ").lower()
   if user in ["hello", "hi"]:
     print("Chatbot: Hello there! How are you?")
   elif user in ["how are you", "how are you?"]:
     print("Chatbot: I'm just a program, but I'm doing great! ☑ ")
   elif user in ["i'm fine", "fine", "good"]:
     print("Chatbot: Nice to hear that!")
   elif user == "bye":
     print("Chatbot: Goodbye! Have a great day! \mbox{\em 1}")
```

break
else:
print("Chatbot: Sorry, I didn't understand that.")
chathot()