main.py

Run

```python
# Python Program: Hangman Game
import random

# Predefined list of words
words = ['apple', 'banana', 'mango', 'orange',
    'grape']

# Choose a random word
secret_word = random.choice(words)

# Create a variable to store guessed letters
guessed_letters = []

# Maximum incorrect guesses
max_attempts = 6
attempts = 0

print("🎯 Welcome to the Hangman Game!")
print("Hint: The word is a fruit name.")
print("_ " * len(secret_word))

# Main game loop
while attempts < max_attempts:
    guess = input("Guess a letter: ").lower()

    if not guess.isalpha() or len(guess) != 1:
        print("⚠️ Please enter a single
            alphabet letter.")
        continue

    if guess in guessed_letters:
        print("You've already guessed that
            letter!")
        continue

    guessed_letters.append(guess)

    if guess in secret_word:
        print("✅ Good guess!")
    else:
        print("❌ Wrong guess!")
        attempts += 1

    # Display current progress
    display_word = ''
    for char in secret_word:
        if char in guessed_letters:
            display_word += char + ' '
        else:
            display_word += '_ '
    print(display_word.strip())

    # Check if the player has guessed all
        letters
    if all(char in guessed_letters for char in
        secret_word):
        print("🎉 Congratulations! You guessed
            the word:", secret_word)
        break

if attempts == max_attempts:
    print("😢 Sorry, you ran out of attempts.
        The word was:", secret_word)
```

Output

Clear

```
🎯 Welcome to the Hangman Game!
Hint: The word is a fruit name.
_ _ _ _ _
Guess a letter: a
✅ Good guess!
a _ _ _ _
Guess a letter: p
✅ Good guess!
a p p _ _
Guess a letter: l
✅ Good guess!
a p p l _
Guess a letter: e
✅ Good guess!
a p p l e
🎉 Congratulations! You guessed the word: apple

=== Code Execution Successful ===
```

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Run

```python
# Hardcoded dictionary with stock prices
stock_prices = {
    "AAPL": 180,
    "TSLA": 250,
    "GOOGL": 2750,
    "MSFT": 320,
    "AMZN": 135
}

# Dictionary to store user portfolio
portfolio = {}

# Input from user
n = int(input("How many different stocks do you want to enter? "))

for i in range(n):
    stock = input(f"Enter stock symbol ({i+1}): ").upper()
    quantity = int(input(f"Enter quantity for {stock}: "))

    if stock in stock_prices:
        portfolio[stock] = quantity
    else:
        print(f"{stock} not found in stock price list.")

# Calculate total investment
total_investment = 0
print("\nYour Portfolio Summary:")
print("-----------------------")
for stock, qty in portfolio.items():
    price = stock_prices[stock]
    investment = price * qty
    total_investment += investment
    print(f"{stock}: {qty} shares x ${price} = ${investment}")

print("-----------------------")
print(f"Total Investment: ${total_investment}")

# Optional: Save to file
save_option = input("\nDo you want to save this result to a file? (yes/no): ").lower()

if save_option == "yes":
    filename = input("Enter file name (with .txt or .csv): ")
    with open(filename, "w") as f:
        f.write("Stock,Quantity,Price,Investment\n")
        for stock, qty in portfolio.items():
            price = stock_prices[stock]
            investment = price * qty
            f.write(f"{stock},{qty},{price},{investment}\n")
        f.write(f"\nTotal Investment,,,{total_investment}")
    print(f"Portfolio saved to {filename}")
```

Output

Clear

```
How many different stocks do you want to enter? 2
Enter stock symbol (1): AAPL
Enter quantity for AAPL: 10
Enter stock symbol (2): TSLA
Enter quantity for TSLA: 5

Your Portfolio Summary:
-----------------------
AAPL: 10 shares x $180 = $1800
TSLA: 5 shares x $250 = $1250
-----------------------
Total Investment: $3050

Do you want to save this result to a file? (yes/no): no

=== Code Execution Successful ===
```

main.py

Run

```python
def chatbot():
    print("Chatbot: Hello! Type 'bye' to exit."
        )

    while True:
        user_input = input("You: ").lower
            ().strip()

        if user_input == "hello":
            print("Chatbot: Hi!")
        elif user_input in ["how are you", "how
            r u", "how do you do"]:
            print("Chatbot: I'm fine, thanks!")
        elif user_input == "bye":
            print("Chatbot: Goodbye!")
            break
        else:
            print("Chatbot: Sorry, I don't
                understand.")

# Run the chatbot
chatbot()
```

Output

```
Chatbot: Hello! Type 'bye' to exit.
You: hello
Chatbot: Hi!
You: how are you
Chatbot: I'm fine, thanks!
You: bye
Chatbot: Goodbye!

=== Code Execution Successful ===
```