**Write a program to count word frequencies** **in a given text**

text = "this is a python program. this program is written to check the frequency of each word in the sentence"

words = text.split()

word\_freq = {}

for word in words:

word = word.strip(".,!?") # Remove punctuation

if word not in word\_freq:

word\_freq[word] = 1

else:

word\_freq[word] += 1

for word, freq in word\_freq.items():

print(f"{word}: {freq}")

**OUTPUT:**

this: 2

is: 2

a: 1

python: 1

program: 2

written: 1

to: 1

check: 1

the: 2

frequency: 1

of: 1

each: 1

word: 1

in: 1

sentence: 1

**Mini Project: Develop a basic to-do list program using functions and data structures**

def display\_todo\_list(todo\_list):

print("To-Do List:")

for index, task in enumerate(todo\_list, start=1):

print(f"{index}. {task}")

def add\_task(todo\_list, new\_task):

todo\_list.append(new\_task)

print(f"Added: {new\_task}")

def remove\_task(todo\_list, task\_index):

if 1 <= task\_index <= len(todo\_list):

removed\_task = todo\_list.pop(task\_index - 1)

print(f"Removed: {removed\_task}")

else:

print("Invalid task index")

# Main program loop

if \_\_name\_\_ == "\_\_main\_\_":

todo\_list = []

while True:

print("\nOptions:")

print("1. Display To-Do List")

print("2. Add Task")

print("3. Remove Task")

print("4. Quit")

choice = input("Enter your choice (1/2/3/4): ")

if choice == "1":

display\_todo\_list(todo\_list)

elif choice == "2":

new\_task = input("Enter the new task: ")

add\_task(todo\_list, new\_task)

elif choice == "3":

task\_index = int(input("Enter the index of the task to remove: "))

remove\_task(todo\_list, task\_index)

elif choice == "4":

break

else:

print("Invalid choice. Please try again.")

**OUTPUT:**

Options:

1. Display To-Do List

2. Add Task

3. Remove Task

4. Quit

Enter your choice (1/2/3/4): 2

Enter the new task: learn python

Added: learn python

Options:

1. Display To-Do List

2. Add Task

3. Remove Task

4. Quit

Enter your choice (1/2/3/4): 2

Enter the new task: python assignment

Added: python assignment

Options:

1. Display To-Do List

2. Add Task

3. Remove Task

4. Quit

Enter your choice (1/2/3/4): 1

To-Do List:

1. learn python

2. python assignment

Options:

1. Display To-Do List

2. Add Task

3. Remove Task

4. Quit

Enter your choice (1/2/3/4): 3

Enter the index of the task to remove: 2

Removed: python assignment

Options:

1. Display To-Do List

2. Add Task

3. Remove Task

4. Quit

Enter your choice (1/2/3/4): 4

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