

VAULTOF CODES

NEW TASK

write a program to count word frequencies in a given text :

```
def count(elements):  
    if elements[-1] == '.':  
        elements = elements[0:len(elements) - 1]  
  
    if elements in dictionary:  
        dictionary[elements] += 1  
    else:  
        dictionary.update({elements: 1})  
  
Sentence = "Apple Mango Orange Mango Guava Guava Mango"  
  
# Declare a dictionary  
dictionary = {}  
  
# split all the word of the string.  
lst = Sentence.split()  
  
# take each word from lst and pass it to the method count.  
for elements in lst:  
    count(elements)  
  
for allKeys in dictionary:  
    print ("Frequency of ", allKeys, end = " ")  
    print (":", end = " ")  
    print (dictionary[allKeys], end = " ")  
    print()
```

OUTPUT :

```
Frequency of Apple : 1  
Frequency of Mango : 3  
Frequency of Orange : 1  
Frequency of Guava : 2
```

MINI PROJECT :

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

```
import os

tasks = []

def display_tasks():
    if not tasks:
        print("To-do list is Empty.\n")
    else:
        print("To-do list.")
        for index, task in enumerate(tasks, start=1):
            print(f"{index}. {task}")

def add_task(task):
    tasks.append(task)
    print(f"The task added is: {task}")

def update_task(index, new_task):
    if 1 <= index <= len(tasks):
        tasks[index - 1] = new_task
        print(f"Task no. {index} updated to {new_task}")
    else:
        print("The task number is invalid")

def remove_task(index):
    if 1 <= index <= len(tasks):
        removed_task = tasks.pop(index - 1)
        print(f"The task no. {index} is removed successfully")
```

```
else:
```

```
    print("The task number is invalid")
```

```
def delete_task():
```

```
    global tasks
```

```
    tasks = []
```

```
while True:
```

```
    os.system("clear" if os.name == "posix" else "cls")
```

```
    print("///// To-Do List Application /////\n")
```

```
    display_tasks()
```

```
    print("Select any one option.")
```

```
    print("1. Add New Task.")
```

```
    print("2. Update New Task.")
```

```
    print("3. Remove Existing Task.")
```

```
    print("4. Delete all Tasks.")
```

```
    print("5. Exit.\n")
```

```
select = input("What do you wanna do? ")
```

```
if select == "1":
```

```
    task = input("Enter the task: ")
```

```
    add_task(task)
```

```
elif select == "2":
```

```
    index = int(input("Which task do you want to update? Enter the number. "))
```

```
    new_task = input("Enter the new updated task: ")
```

```
    update_task(index, new_task)
```

```
elif select == "3":
```

```

        index = int(input("Which task do you want to remove? Enter the number. "))
        remove_task(index)

    elif select == "4":
        delete_task()
        print("All tasks have been deleted.")

    elif select == "5":
        print("Exiting the Application")
        break

    else:
        input("Invalid choice. Enter any button to continue.....")

```

with open("Save.txt", "w") as file:

for task in tasks:

file.write(task + "\n")

OUTPUT :

///// To-Do List Application /////

To-do list is Empty.

Select any one option.

1. Add New Task.
2. Update New Task.
3. Remove Existing Task.
4. Delete all Tasks.
5. Exit.

What do you wanna do? 1

Enter the task: to do list

The task added is: to do list

///// To-Do List Application /////

To-do list.

1. to do list

Select any one option.

1. Add New Task.
2. Update New Task.

3. Remove Existing Task.
4. Delete all Tasks.
5. Exit.

What do you wanna do? 1

Enter the task: assignment

The task added is: assignment

///// To-Do List Application /////

To-do list.

1. to do list
2. assignment

Select any one option.

1. Add New Task.
2. Update New Task.
3. Remove Existing Task.
4. Delete all Tasks.
5. Exit.

What do you wanna do? 2

Which task do you want to update? Enter the number.2

Enter the new updated task: task

Task no. 2 updated to task

///// To-Do List Application /////

To-do list.

1. to do list
2. task

Select any one option.

1. Add New Task.
2. Update New Task.
3. Remove Existing Task.
4. Delete all Tasks.
5. Exit.

What do you wanna do? 3

Which task do you want to remove? Enter the number.2

The task no. 2 is removed successfully

///// To-Do List Application /////

To-do list.

1. to do list

Select any one option.

1. Add New Task.
2. Update New Task.
3. Remove Existing Task.
4. Delete all Tasks.

5. Exit.

What do you wanna do? 4

All tasks have been deleted.

///// To-Do List Application /////

To-do list is Empty.

Select any one option.

1. Add New Task.

2. Update New Task.

3. Remove Existing Task.

4. Delete all Tasks.

5. Exit.

What do you wanna do? 5

Exiting the Application