MOTIONCUT WEEK 3

Week 3 Task: To-Do List Application Development

We're excited to have you on board, and for your third project, we have a classic but essential task: developing a To-Do List Application.

Project Overview:

Your task is to create a To-Do List Application in Python. This application should allow users to add tasks, mark tasks as completed, update task descriptions, and remove tasks from the list. You can choose whether to make it a command-line application or implement a graphical user interface (GUI) for added challenge.

Project Details:

1. Add Tasks: Users should be able to add new tasks to the to-do list. Each task should have a description and can be assigned a due date or priority.

2. Task List Display: Create a feature to display the list of tasks, including details like task description, due date, and priority.

3. Task Completion: Users should have the ability to mark tasks as completed, which will move them to a separate completed tasks list.

4. Update Tasks: Allow users to update task descriptions, due dates, or priorities.

5. Remove Tasks: Implement the option to remove tasks from the list.

Optional GUI:

As mentioned, you can choose to make this application purely command-line or take on the additional challenge of creating a graphical user interface (GUI) for a more user-friendly experience. The choice is yours.

```
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
2. Select any one option.
3. 1. Add New Task.
4. 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