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):

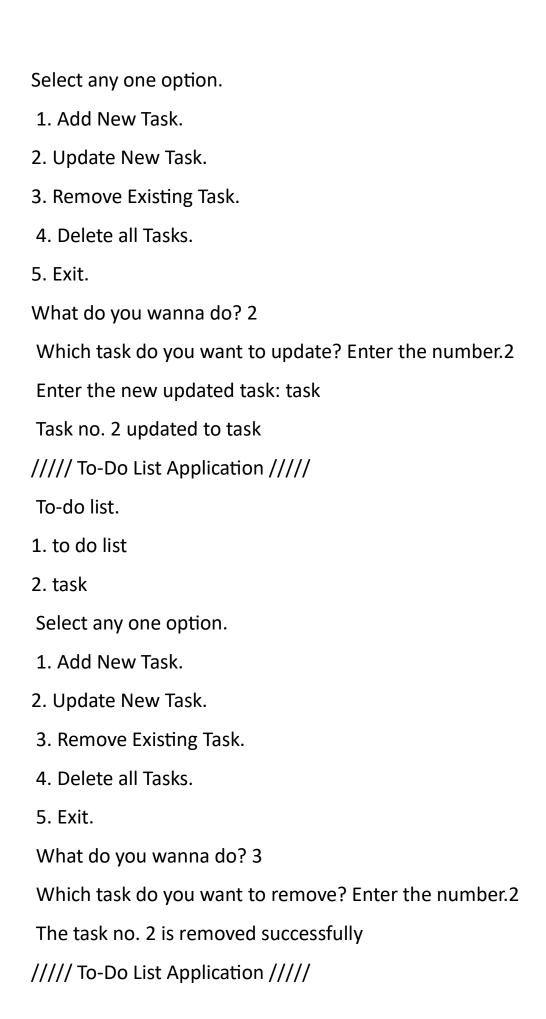
if 1 <= index <= len(tasks):</pre>
```

```
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



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