MOTIONCUT

TASK-3

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.

```python
tasks = []

def add_task():
    task = input("Enter the task: ")
    tasks.append(task)
    print("Task added successfully!")

def mark_completed():
    task_index = int(input("Enter the index of the task to mark as completed: "))
    if task_index >= 0 and task_index < len(tasks):
        tasks[task_index] = "[Completed] " + tasks[task_index]
        print("Task marked as completed!")
    else:
        print("Invalid task index!")

def update_task():
    task_index = int(input("Enter the index of the task to update: "))
    if task_index >= 0 and task_index < len(tasks):
        new_task = input("Enter the updated task: ")
        tasks[task_index] = new_task
        print("Task updated successfully!")
    else:
        print("Invalid task index!")
```

```python
def remove_task():
    task_index = int(input("Enter the index of the task to remove: "))
    if task_index >= 0 and task_index < len(tasks):
        removed_task = tasks.pop(task_index)
        print("Task removed:", removed_task)
    else:
        print("Invalid task index!")


def view_tasks():
    if len(tasks) > 0:
        print("Here are your tasks:")
        for index, task in enumerate(tasks):
            print(f"{index}. {task}")
    else:
        print("Your to-do list is empty!")


# Main program loop
while True:
    print("\n----- To-Do List Application -----")
    print("1. Add Task")
    print("2. Mark Task as Completed")
    print("3. Update Task")
    print("4. Remove Task")
    print("5. Display Tasks")
    print("6. Exit")

    choice = input("Enter your choice (1-6): ")
    print()

    if choice == "1":
        add_task()
```

```python
        elif choice == "2":
            mark_completed()
        elif choice == "3":
            update_task()
        elif choice == "4":
            remove_task()
        elif choice == "5":
            view_tasks()
        elif choice == "6":
            print("Thank you for using the To-Do List Application. Goodbye!")
            break
        else:
            print("Invalid choice. Please try again.")
```

OUTPUT:

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 1

Enter the task: todo list

Task added successfully!

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 2

Enter the index of the task to mark as completed: 0

Task marked as completed!

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 1

Enter the task: application

Task added successfully!

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 2

Enter the index of the task to mark as completed: 1

Task marked as completed!

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 3

Enter the index of the task to update: 1

Enter the updated task: python

Task updated successfully!

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 5

Here are your tasks:

0. [Completed] todo list

1. python

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 4

Enter the index of the task to remove: 1

Task removed: python

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit

Enter your choice (1-6): 5

Here are your tasks:

0. [Completed] todo list

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

1. Add Task

2. Mark Task as Completed

3. Update Task

4. Remove Task

5. Display Tasks

6. Exit