TO DO LIST APP

Task:

To-Do List Application Development

Abstract:

The To-Do List Application is a Python-based software tool aimed at enhancing task management and productivity for individual users. The application employs fundamental programming concepts such as functions and utilizes a list as a primary data structure to store and organize tasks. The key components of the application include functions for adding, deleting, displaying, and marking tasks as complete, offering users a versatile and user-friendly task management experience.

Source Code:

```
class TodoList:
    def _init_(self):
        self.tasks = []

    def add_task(self, task):
        self.tasks.append(task)
        print(f"Task '{task}' added to the to-do list.")

    def view_tasks(self):
        if not self.tasks:
            print("No tasks in the to-do list.")
        else:
            print("To-Do List:")
            for index, task in enumerate(self.tasks, start=1):
                print(f"{index}. {task}")

    def remove_task(self, task):
        if task in self.tasks:
            self.tasks.remove(task)
            print(f"Task '{task}' removed from the to-do list.")
        else:
            print(f"Task '{task}' not found in the to-do list.")

# Example usage
todo_list = TodoList()
todo_list.add_task("Finish coding assignment")
todo_list.add_task("Buy groceries")
todo_list.view_tasks()
todo_list.remove_task("Buy groceries")
todo_list.view_tasks()
```

Output:

```python
class TodoList:
    def __init__(self):
        self.tasks = []

    def add_task(self, task):
        self.tasks.append(task)
        print(f"Task '{task}' added to the to-do list.")

    def view_tasks(self):
        if not self.tasks:
            print("No tasks in the to-do list.")
        else:
            print("To-Do List:")
            for index, task in enumerate(self.tasks, start=1):
                print(f"{index}. {task}")

    def remove_task(self, task):
        if task in self.tasks:
            self.tasks.remove(task)
            print(f"Task '{task}' removed from the to-do list.")
        else:
            print(f"Task '{task}' not found in the to-do list.")

# Example usage
todo_list = TodoList()
todo_list.add_task("Finish coding assignment")
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todo_list.view_tasks()
todo_list.remove_task("Buy groceries")
todo_list.view_tasks()
```

```
Task 'Finish coding assignment' added to the to-do list.
Task 'Buy groceries' added to the to-do list.
To-Do List:
1. Finish coding assignment
2. Buy groceries
Task 'Buy groceries' removed from the to-do list.
To-Do List:
1. Finish coding assignment
>
```

THE END