

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:

```
1 class TodoList:
2     def __init__(self):
3         self.tasks = []
4
5     def add_task(self, task):
6         self.tasks.append(task)
7         print(f"Task '{task}' added to the to-do list
8             .")
9
10    def view_tasks(self):
11        if not self.tasks:
12            print("No tasks in the to-do list.")
13        else:
14            print("To-Do List:")
15            for index, task in enumerate(self.tasks,
16                start=1):
17                print(f"{index}. {task}")
18
19    def remove_task(self, task):
20        if task in self.tasks:
21            self.tasks.remove(task)
22            print(f"Task '{task}' removed from the to
23                -do list.")
24        else:
25            print(f"Task '{task}' not found in the to
26                -do list.")
27
28    # Example usage
29    todo_list = TodoList()
30    todo_list.add_task("Finish coding assignment")
31    todo_list.add_task("Buy groceries")
32    todo_list.view_tasks()
33    todo_list.remove_task("Buy groceries")
34    todo_list.view_tasks()
35
```

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
> |

