# Creating a simple to do list using python

Hey there, everyone! I'm Gaafer Astroinforamatics specialist & python devolper, Through this talk We are going to dive into areally cool coding project.

We'll establish a simple To-Do List application using python. This program allows you to add tasks, view tasks, mark tasks as done, and exit the list. It's a great way to keep track of your tasks and stay organized

## **Pre-requisites:**

- Basic Python Knowledge: It's helpful to have a basic understanding of Python programming concepts like variables, loops, functions, and if statements
- Python Installed: Make sure you have Python installed on your computer. You can download it from the Link in Description.
- Text Editor or IDE: You'll need a text editor or integrated development environment (IDE) to write and run your Python code. Some popular options are Visual Studio Code, PyCharm, or even a simple text editor like Notepad.
- Curiosity and Enthusiasm: Most importantly, bring your curiosity and enthusiasm for coding. This project is a great way to have fun while learning and practicing Python.

### **Python Concepts Needed**

- Conditional Statements
- Looping
- Function

First, We begin by defining a function called main(). This function will be the heart of our To-Do List program. Inside the function, we create an empty list called tasks. This list will hold all our tasks.

We use a while True loop to keep the program running until the user decides to exit. Inside the loop, we display a menu with four options:

- Add Task
- Show Tasks
- Mark Task as Done
- Exit

The user is prompted to enter their choice.

If the user selects option '1', they can add tasks to their To-Do List. The program asks how many tasks the user wants to add. Then, for each task, the user enters a description, and we add that task to our tasks list along with a status of "Not Done."

If the user chooses option '2', we display the list of tasks along with their statuses. We use a loop to go through each task and show its number, description, and whether it's done or not.

Now, if the user picks option '3', they can mark a task as done. They enter the task number they want to mark, and if the number is valid, we change the status of that task to "Done."

Finally, if the user goes with option '4', we exit the To-Do List by breaking out of the loop.

#### **FULL CODE:**

```
In [ ]: def main():
    tasks = []
    while True:
         print("\n==== To-Do List =====")
         print("1. Add Task")
         print("2. Show Tasks")
        print("3. Mark Task as Done")
        print("4. Exit")
         choice = input("Enter your choice: ")
         if choice == '1':
             print()
             n_tasks = int(input("How may task you want to add: "))
             for i in range(n_tasks):
                 task = input("Enter the task: ")
                 tasks.append({"task": task, "done": False})
                 print("Task added!")
         elif choice == '2':
             print("\nTasks:")
             for index, task in enumerate(tasks):
                 status = "Done" if task["done"] else "Not Done"
                 print(f"{index + 1}. {task['task']} - {status}")
         elif choice == '3':
             task_index = int(input("Enter the task number to mark as done: ")) - 1
             if 0 <= task_index < len(tasks):</pre>
                 tasks[task index]["done"] = True
                 print("Task marked as done!")
             else:
                 print("Invalid task number.")
         elif choice == '4':
             print("Exiting the To-Do List.")
             break
             print("Invalid choice. Please try again.")
 if __name__ == "__main__":
    main()
==== To-Do List =====
1. Add Task
2. Show Tasks
3. Mark Task as Done
4. Exit
```

I'm defending my position as the best upcoming Astroinformatics Specialist In shaa Allah & This is My LinkedIn profile Just a Tool to Flourish

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I'm participating as a Trainee at Digital Egypt Pioneers Initiative - DEPI , Under Supervision of Ministry of Communications and Information Technology (MCIT), Egypt AI & Data Science IBM. I'm asking Allah always for more guidance & prosperity

### [Amidst Seniors,Ever present]

In [ ]: