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Program:

To-Do List program

Introduction:

This program is a simple **To-Do List application** made using Python. It allows users to add multiple tasks and keep them organized. Each task can be marked as completed or left as pending. The program runs in a loop, giving users choices through a menu. It helps in managing daily work step by step. The design is easy to use and suitable for beginners. Overall, it is a practical project to learn Python basics.

Code:

def main():

    tasks = []

    while True:

        print(" 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()

            num\_tasks = int(input("How may task you want to add: "))

            for i in range(num\_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':

            todotask = int(input("Enter the task number to mark as done: ")) - 1

            if 0 <= todotask < len(tasks):

                tasks[todotask]["done"] = True

                print("Task marked as done!")

            else:

                print("Invalid task number.")

        elif choice == '4':

            print("Exiting the To-Do List.")

            break

        else:

            print("Invalid choice. Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

Explaination of the code :

Here’s the explanation in clear step-wise points:

1. The program defines a **main()** function where all the code runs.
2. An empty list called **tasks** is created to store the tasks.
3. A continuous loop displays a menu with four choices:
   * Add Task
   * Show Tasks
   * Mark Task as Done
   * Exit
4. If the user selects **Add Task**, the program asks how many tasks to enter and then saves them in the list with the status “Not Done.”
5. If the user selects **Show Tasks**, the program prints all tasks along with their status, either “Done” or “Not Done.”
6. If the user selects **Mark Task as Done**, the program asks for the task number and updates its status to “Done.”
7. If the user selects **Exit**, the loop ends and the program stops running.
8. If the user enters anything else, the program shows an “Invalid choice” message.
9. The line **if name == "main": main()** makes sure the program starts when it is run directly