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todoaman.py

```
1
    class Task:
 2
        def __init__(self, title, description):
 3
            self.title = title
 4
            self.description = description
 5
            self.completed = False
 6
 7
        def mark_completed(self):
            self.completed = True
 8
 9
        def __str__(self):
10
            status = "√" if self.completed else "X"
11
            return f"[{status}] {self.title}: {self.description}"
12
13
14
    class ToDoList:
15
        def __init__(self):
16
17
            self.tasks = []
18
19
        def add_task(self, title, description):
20
            task = Task(title, description)
21
            self.tasks.append(task)
            print(f"Task '{title}' added.")
22
23
        def update task(self, index, title=None, description=None):
24
25
            if 0 <= index < len(self.tasks):</pre>
                if title:
26
                     self.tasks[index].title = title
27
28
                if description:
29
                     self.tasks[index].description = description
                print(f"Task {index + 1} updated.")
30
31
            else:
                print("Invalid task index.")
32
33
        def mark_task_completed(self, index):
34
35
            if 0 <= index < len(self.tasks):</pre>
36
                self.tasks[index].mark_completed()
37
                print(f"Task {index + 1} marked as completed.")
38
            else:
39
                print("Invalid task index.")
40
41
        def display_tasks(self):
            if not self.tasks:
42
43
                print("No tasks available.")
            else:
44
                for i, task in enumerate(self.tasks):
45
                     print(f"{i + 1}. {task}")
46
47
48
```

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```

```
def main():
49
50
        todo_list = ToDoList()
51
        while True:
52
53
            print("\nTo-Do List Application")
54
            print("1. Add Task")
            print("2. Update Task")
55
            print("3. Mark Task Completed")
56
            print("4. Display Tasks")
57
            print("5. Exit")
58
59
            choice = input("Choose an option: ")
60
61
            if choice == '1':
62
                title = input("Enter task title: ")
63
                description = input("Enter task description: ")
64
65
                todo list.add task(title, description)
66
            elif choice == '2':
67
                todo list.display tasks()
68
                index = int(input("Enter task number to update: ")) - 1
69
                title = input("Enter new task title (leave blank to keep current): ")
70
                description = input("Enter new task description (leave blank to keep current): ")
71
                todo list.update task(index, title if title else None, description if description
72
    else None)
73
            elif choice == '3':
74
75
                todo list.display tasks()
                index = int(input("Enter task number to mark as completed: ")) - 1
76
                todo_list.mark_task_completed(index)
77
78
79
            elif choice == '4':
80
                todo_list.display_tasks()
81
            elif choice == '5':
82
                print("Exiting the application.")
83
84
                break
85
            else:
86
87
                print("Invalid choice. Please try again.")
88
89
    if __name__ == "__main__":
90
91
        main()
92
```