main.py | Output

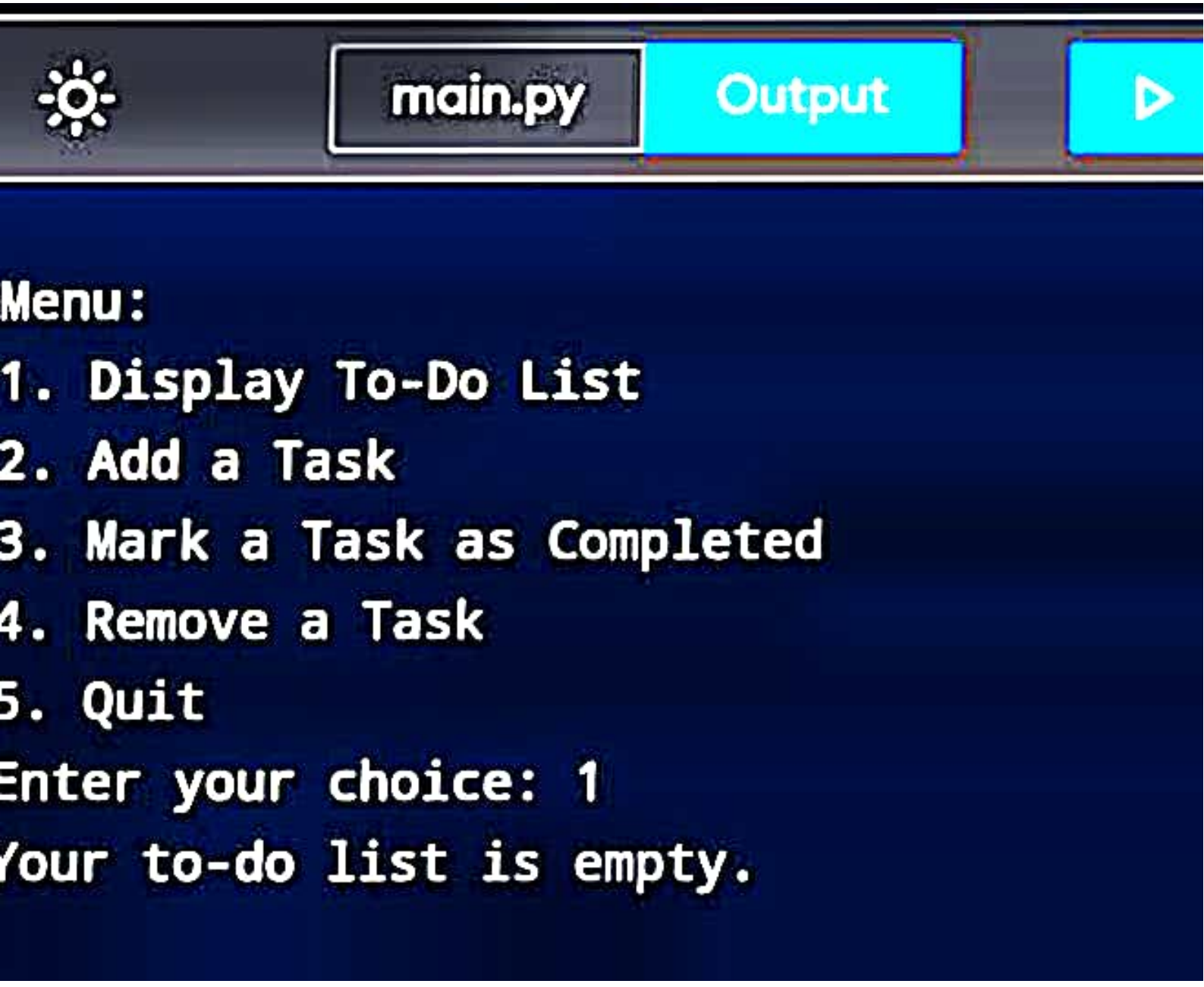
```
class ToDoList:
    def __init__(self):
        self.tasks = []

    def display_tasks(self):
        if self.tasks:
            print("To-Do List:")
            for i, task in enumerate(self.tasks, start=1):
                print(f"{i}. {task[0]} - {'Completed' if task[1] else 'Not Completed'}")
        else:
            print("Your to-do list is empty.")

    def add_task(self, new_task):
        self.tasks.append([new_task, False])
        print("Task added successfully.")
```

```
16
17      def mark_task_completed(self,
            task_number):
18          if 1 <= task_number <= len
                (self.tasks):
19              self.tasks[task_number -
                    1][1] = True
20              print("Task marked as
                    completed.")
21          else:
22              print("Invalid task number
                    .")
23
24      def remove_task(self, task_number
            ):
25          if 1 <= task_number <= len
                (self.tasks):
26              del self.tasks[task_number
                    - 1]
27              print("Task removed
                    successfully.")
28          else:
29              print("Invalid task number
                    .")
30
```

```
31
32  def main():
33      to_do_list = ToDoList()
34
35      while True:
36          print("\nMenu:")
37          print("1. Display To-Do List")
38          print("2. Add a Task")
39          print("3. Mark a Task as
                Completed")
40          print("4. Remove a Task")
41          print("5. Quit")
42
43          choice = input("Enter your
                choice: ")
44
45          if choice == '1':
46              to_do_list.display_tasks()
47          elif choice == '2':
48              new_task = input("Enter
                    the task's name: ")
49              to_do_list.add_task
                    (new_task)
50          elif choice == '3':
51              to_do_list.display_tasks()
```

```
52                task_number = int(input
                      ("Enter the task
                      number to mark as
                      completed: "))
53                to_do_list
                      .mark_task_completed
                      (task_number)
54            elif choice == '4':
55                to_do_list.display_tasks()
56                task_number = int(input
                      ("Enter the task
                      number to remove: "))
57                to_do_list.remove_task
                      (task_number)
58            elif choice == '5':
59                print("Exiting the
                      application.")
60                break
61            else:
62                print("Invalid choice.
                      Please enter a number
                      between 1 and 5.")
63
64
65    if __name__ == "__main__":
66        main()
```

Run


main.py
Output
Menu:
1. Display To-Do List
2. Add a Task
3. Mark a Task as Completed
4. Remove a Task
5. Quit
Enter your choice: 1
Your to-do list is empty.

```
Menu:
1. Display To-Do List
2. Add a Task
3. Mark a Task as Completed
4. Remove a Task
5. Quit
Enter your choice: 2
Enter the task's name:
Task added successfully.
```

```
Menu:
1. Display To-Do List
2. Add a Task
3. Mark a Task as Completed
4. Remove a Task
5. Quit
Enter your choice: 3
To-Do List:
1.  - Not Completed
Enter the task number to mark as completed
```

```
Menu:
1. Display To-Do List
2. Add a Task
3. Mark a Task as Completed
4. Remove a Task
5. Quit
Enter your choice: 4
Your to-do list is empty.
Enter the task number to remove: 6
Invalid task number.
```

```
Menu:
1. Display To-Do List
2. Add a Task
3. Mark a Task as Completed
4. Remove a Task
5. Quit
Enter your choice: 5
Exiting the application.

=== Code Execution Successful ===
```