correct code:

```
def display_list(todo_list):
    if not todo_list:
        print("Your to-do list is empty.")
    else:
        print("To-Do List:")
        for index, task in enumerate(todo_list, start=1):
            print(f"{index}. {task}")

def add_task(todo_list, task):
    todo_list.append(task)
    print(f"Task '{task}' added to your to-do list.")

def remove_task(todo_list, task_index):
    if 1 <= task_index <= len(todo_list):
        removed_task = todo_list.pop(task_index - 1)
        print(f"Task '{removed_task}' removed from your to-do list.")
    else:
        print("Invalid task index. Please enter a valid task index.")

def main():
    todo_list = []

    while True:
        print("\nMenu:")
        print("1. Display To-Do List")
        print("2. Add Task")
        print("3. Remove Task")
        print("4. Quit")

        choice = input("Enter your choice: ")
```

```
        if choice == "1":
            display_list(todo_list)
        elif choice == "2":
            task = input("Enter the task you want to add: ").strip()  # Removed leading/trailing whitespace
            if task:
                add_task(todo_list, task)
            else:
                print("Task description cannot be empty.")
        elif choice == "3":
            try:
                task_index = int(input("Enter the task index you want to remove: "))
                remove_task(todo_list, task_index)
            except ValueError:
                print("Invalid input. Please enter a valid task index (integer).")
        elif choice == "4":
            print("Goodbye!")
            break
        else:
            print("Invalid choice. Please select a valid option from the menu.")

if __name__ == "__main__":
```

The changes and debugging:

1. Added. strip() to the task input to remove leading/trailing whitespace and checked if the task is not empty before adding it.

2. Ensured that the task description is not empty when adding a task.

3. Validated user input for removing tasks to avoid potential errors.ain()