

```
todo_list = []
```

```
def display_menu():
```

```
    """Display the menu options to the user."""
```

```
    print("\nTo-Do List Application")
```

```
    print("-----")
```

```
    print("1. View To-Do List")
```

```
    print("2. Add Task")
```

```
    print("3. Update Task")
```

```
    print("4. Delete Task")
```

```
    print("5. Exit")
```

```
def view_tasks():
```

```
    """Display all tasks in the to-do list."""
```

```
    if not todo_list:
```

```
        print("\nYour to-do list is empty.")
```

```
    else:
```

```
        print("\nTo-Do List:")
```

```
        for index, task in enumerate(todo_list, start=1):
```

```
            print(f"{index}. {task}")
```

```
def add_task():
```

```
    """Add a new task to the to-do list."""
```

```
    task = input("\nEnter the task: ")
```

```
    todo_list.append(task)
```

```
    print(f"Task '{task}' has been added to the list.")
```

```
def update_task():
```

```
    """Update an existing task in the to-do list."""
```

```
    view_tasks()
```

```
    if todo_list:
```

```

try:
    task_number = int(input("\nEnter the number of the task you want to update: "))
    if 1 <= task_number <= len(todo_list):
        new_task = input("Enter the new task: ")
        todo_list[task_number - 1] = new_task
        print(f"Task {task_number} has been updated to '{new_task}'.")
    else:
        print("Invalid task number.")
except ValueError:
    print("Please enter a valid number.")

```

```

def delete_task():
    """Delete a task from the to-do list."""
    view_tasks()
    if todo_list:
        try:
            task_number = int(input("\nEnter the number of the task you want to delete: "))
            if 1 <= task_number <= len(todo_list):
                removed_task = todo_list.pop(task_number - 1)
                print(f"Task '{removed_task}' has been deleted.")
            else:
                print("Invalid task number.")
        except ValueError:
            print("Please enter a valid number.")

```

```

def main():
    """Main function to run the To-Do List application."""
    while True:
        display_menu()
        choice = input("\nEnter your choice (1-5): ")

```

```
if choice == '1':
    view_tasks()
elif choice == '2':
    add_task()
elif choice == '3':
    update_task()
elif choice == '4':
    delete_task()
elif choice == '5':
    print("\nThank you for using the To-Do List application. Goodbye!")
    break
else:
    print("Invalid choice. Please enter a number between 1 and 5.")

if __name__ == "__main__":
    main()
```