Module 2 – To Do List

Console Output

geo@Geovanies-MBP Module2 % dotnet run

Welcome to the To-Do List Maker

- 1 Add a new task
- 2 Delete a task
- 3 View To-Do List
- 4 Exit

Please select a command:

1

Enter your To Do Item:

Walk the dogs

- 1 Add a new task
- 2 Delete a task
- 3 View To-Do List
- 4 Exit

Please select a command:

1

Enter your To Do Item:

Do the dishes

- 1 Add a new task
- 2 Delete a task
- 3 View To-Do List
- 4 Exit

Please select a command:

3

To-Do List

- Task #1: Walk the dogs
- Task #2: Do the dishes
- 1 Add a new task
- 2 Delete a task
- 3 View To-Do List
- 4 Exit

Please select a command:

2

Enter in a Task ID:

2

To-Do Item 2 has been deleted.

- 1 Add a new task
- 2 Delete a task
- 3 View To-Do List

```
4 - Exit
Please select a command:
3
To-Do List
- Task #1: Walk the dogs
1 - Add a new task
2 - Delete a task
3 - View To-Do List
4 - Exit
Please select a command:
Enter in a Task ID:
Task ID #7 doesn't exist.
1 - Add a new task
2 - Delete a task
3 - View To-Do List
4 - Exit
Please select a command:
geo@Geovanies-MBP Module2 %
```

Source Code

```
static void ShowOptions() {
            Console.WriteLine("1 - Add a new task");
            Console.WriteLine("2 - Delete a task");
            Console.WriteLine("3 - View To-Do List");
            Console.WriteLine("4 - Exit");
        static Task? AddNewTask(int idx) {
            Console.WriteLine("Enter your To Do Item:");
            var definition = Console.ReadLine();
            if (definition != null) {
                return new Task(idx, definition);
            } else {
                return null;
       static void DeleteTask(List<Task> tasks) {
            Boolean taskDeleted = false;
            Console.WriteLine("Enter in a Task ID: ");
            var id = Convert.ToInt32(Console.ReadLine());
            if (id != 0) {
                foreach (Task task in tasks) {
                    if (task._id == id) {
                        taskDeleted = true;
                        tasks.Remove(task);
                        break;
                if (taskDeleted) {
                    Console.WriteLine("To-Do Item {0} has been deleted.",
id.ToString());
                } else {
                    Console.WriteLine("Task ID #{0} doesn't exist.", id.ToString());
       static void ViewTasks(List<Task> tasks) {
            if (tasks.Count > 0) {
               Console.WriteLine("To-Do List");
                foreach (Task task in tasks) {
                    Console.WriteLine("- Task #{0}: {1}", task._id, task._definition);
            } else {
               Console.WriteLine("No tasks to display.");
```

```
static void Main(string[] args)
    int index = 1;
    List<Task> tasks = new List<Task>();
    Console.WriteLine("Welcome to the To-Do List Maker");
    ShowOptions();
    Boolean runInterface = true;
   while (runInterface)
       Console.WriteLine("Please select a command: ");
       var command = Console.ReadLine();
        switch (command)
                var task = AddNewTask(index);
                if (task != null) {
                    tasks.Add(task);
                    index += 1;
               break;
               DeleteTask(tasks);
               break;
            case "3": // view
               ViewTasks(tasks);
                break;
            case "4": // exit
                runInterface = false;
                continue;
            default:
                Console.WriteLine("Unrecognized command: {0}", command);
                continue;
        ShowOptions();
```