

Project 1: Sample Runs

Sample Run 1

```
>java PlannerTUI
```

```
-----
----- Welcome to our Day Planner! -----
-----
```

Sample run with keyboard input.
Demonstrate different menu options.

```
Please select from the following options:
```

- ```
1 - Show current planner
2 - Add an event
3 - Change the start time of an event
4 - Change the duration of an event
5 - Change the description of an event
6 - Remove an event
7 - Exit
```

```

Your choice (1-7): 1

```

```
Current planner has 0 event(s).

```

Start with an empty planner: no events.

```
Please select from the following options:
```

- ```
1 - Show current planner
2 - Add an event
3 - Change the start time of an event
4 - Change the duration of an event
5 - Change the description of an event
6 - Remove an event
7 - Exit
```

```
-----
Your choice (1-7): 2
```

```
Please enter the starting hour of the new event (0-23): 9
Please enter the starting minute of the new event (0-59): 0
Please enter the ending hour of the new event (0-23): 10
Please enter the ending minute of the new event (0-59): 15
Please enter a description of the new event:
```

```
classA
```

```
New event added!
```

```
New event details: 09:00-10:15/classA
-----
```

Add a new event:

- Start/end time
- Description

```
Please select from the following options:
```

- ```
1 - Show current planner
2 - Add an event
3 - Change the start time of an event
4 - Change the duration of an event
5 - Change the description of an event
6 - Remove an event
7 - Exit
```

```

Your choice (1-7): 1

```

Current planner has 1 event(s).

-----  
[0]09:00-10:15/classA  
-----

Display the only event.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 2

Please enter the starting hour of the new event (0-23): 6

Please enter the starting minute of the new event (0-59): 30

Please enter the ending hour of the new event (0-23): 7

Please enter the ending minute of the new event (0-59): 30

Please enter a description of the new event:

bus

New event added!

New event details: 06:30-07:30/bus  
-----

Add another event.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 1

-----  
Current planner has 2 event(s).  
-----

[0]06:30-07:30/bus

[1]09:00-10:15/classA  
-----

Display both events.

Note: events are ordered by start times.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 2

Please enter the starting hour of the new event (0-23): 12

Please enter the starting minute of the new event (0-59): 0

Please enter the ending hour of the new event (0-23): 13

Please enter the ending minute of the new event (0-59): 15

Please enter a description of the new event:

classB

New event added!

New event details: 12:00-13:15/classB

-----  
Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): 1  
-----

Current planner has 3 event(s).  
-----

[0]06:30-07:30/bus  
[1]09:00-10:15/classA  
[2]12:00-13:15/classB  
-----

Three events.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): 2

Please enter the starting hour of the new event (0-23): 12  
Please enter the starting minute of the new event (0-59): 0  
Please enter the ending hour of the new event (0-23): 12  
Please enter the ending minute of the new event (0-59): 45  
Please enter a description of the new event:

lunch

New event added!

New event details: 12:00-12:45/lunch  
-----

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): 1  
-----

Current planner has 4 event(s).  
-----

[0]06:30-07:30/bus  
[1]09:00-10:15/classA  
[2]12:00-13:15/classB  
[3]12:00-12:45/lunch  
-----

Four events.  
Note: two events of the same start  
time keep the insertion order.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----

Your choice (1-7): 3

Please select the event number to change: 3

You select to change this event:

12:00-12:45/lunch

Please enter the new starting hour of the event (0-23): 11

Please enter the new starting minute of the event (0-59): 30

Event changed!

-----

Change start time of lunch to reduce the overlap.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----

Your choice (1-7): 1

-----

Current planner has 4 event(s).

-----

[0]06:30-07:30/bus

[1]09:00-10:15/classA

[2]11:30-12:15/lunch

[3]12:00-13:15/classB

-----

Updated start time of lunch.  
Note: keep the events sorted by start time.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----

Your choice (1-7): 4

Please select the event number to change: 2

You select to change this event:

11:30-12:15/lunch

Please enter the new duration in minutes: 25

Event changed!

-----

Change duration of lunch to avoid the overlap.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event

7 - Exit

-----  
Your choice (1-7): 1  
-----

Current planner has 4 event(s).  
-----

[0]06:30-07:30/bus  
[1]09:00-10:15/classA  
[2]11:30-11:55/lunch  
[3]12:00-13:15/classB  
-----

Updated end time of lunch.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 5

Please select the event number to change: 2

You select to change this event:

11:30-11:55/lunch

Please enter the new description: snack

Event changed!  
-----

Change event description.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 1

-----  
Current planner has 4 event(s).  
-----

[0]06:30-07:30/bus  
[1]09:00-10:15/classA  
[2]11:30-11:55/snack  
[3]12:00-13:15/classB  
-----

Updated planner (lunch→snack).

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 6

Please select the event number to remove: 1

Event removed!

Remove an event by index.

Removed event details: 09:00-10:15/classA

-----  
Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): 1

-----  
Current planner has 3 event(s).

-----  
[0]06:30-07:30/bus  
[1]11:30-11:55/snack  
[2]12:00-13:15/classB  
-----

Updated list of events.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): 7

Good-bye!

Terminate the session.

## Sample Run 2

```
>java PlannerTUI input_files/in4.txt
```

```

----- Welcome to our Day Planner! -----

```

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): Press enter to continue ...
```

```
Please enter the starting hour of the new event (0-23): Please enter the starting minute
of the new event (0-59): Please enter the ending hour of the new event (0-23): Please
enter the ending minute of the new event (0-59): Please enter a description of the new
event:
```

```
New event added!
```

```
New event details: 06:00-06:30/breakfast
```

```

Please select from the following options:
```

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): Press enter to continue ...
```

```
Please enter the starting hour of the new event (0-23): Please enter the starting minute
of the new event (0-59): Please enter the ending hour of the new event (0-23): Please
enter the ending minute of the new event (0-59): Please enter a description of the new
event:
```

```
New event added!
```

```
New event details: 06:40-07:40/jogging
```

```

Please select from the following options:
```

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): Press enter to continue ...
```

```
Please enter the starting hour of the new event (0-23): Please enter the starting minute
of the new event (0-59): Please enter the ending hour of the new event (0-23): Please
enter the ending minute of the new event (0-59): Please enter a description of the new
event:
```

```
New event added!
```

Sample run with file input (in4.txt).

- All inputs are provided by the file (one input per line) but will not show on screen;
- You only need to press enter/return of your keyboard to step on;
- Check the actual file (e.g. in4.txt) to see the input details;
- Input\_files/readme.txt provides a description for the steps defined in each of the inX.txt files.

First event added.

Second event added.

New event details: 07:00-08:00/morning news  
-----

Third event added.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): Press enter to continue ...  
-----

Current planner has 3 event(s).  
-----

Display current events.

[0]06:00-06:30/breakfast  
[1]06:40-07:40/jogging  
[2]07:00-08:00/morning news  
-----

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): Press enter to continue ...

Please select the event number to change: You select to change this event:

06:40-07:40/jogging

Please enter the new starting hour of the event (0-23): Please enter the new starting minute of the event (0-59): Event changed!  
-----

Move jogging to start at 7am.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): Press enter to continue ...  
-----

Current planner has 3 event(s).  
-----

[0]06:00-06:30/breakfast  
[1]07:00-08:00/jogging  
[2]07:00-08:00/morning news  
-----

Updated list of events:

- Jogging has a changed start time;
- Jogging still lasts for one hour;
- Jogging keeps the same index since events are still sorted by starting times.

Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event



- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): Press enter to continue ...

Please select the event number to change: You select to change this event:

07:00-08:00/jogging

Please enter the new starting hour of the event (0-23): Please enter the new starting minute of the event (0-59): Event changed!

Move jogging to start at 5am.

-----  
Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): Press enter to continue ...

-----  
Current planner has 3 event(s).

-----  
[0]05:00-06:00/jogging

[1]06:00-06:30/breakfast

[2]07:00-08:00/morning news  
-----

Updated list of events:

- Jogging has a changed start time;
- Jogging still lasts for one hour;
- Jogging takes index 0 now since we need to keep all events sorted.

-----  
Please select from the following options:

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

-----  
Your choice (1-7): Press enter to continue ...

Good-bye!

End of session.

### Sample Run 3

```
>java PlannerTUI
```

```

----- Welcome to our Day Planner! -----

```

```
Please select from the following options:
```

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): 8
Option not supported!

```

```
Please select from the following options:
```

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): 2
```

```
Please enter the starting hour of the new event (0-23): 23
Please enter the starting minute of the new event (0-59): 0
Please enter the ending hour of the new event (0-23): 23
Please enter the ending minute of the new event (0-59): 15
Please enter a description of the new event:
feed angel fish
New event added!
New event details: 23:00-23:15/feed angel fish

```

```
Please select from the following options:
```

- 1 - Show current planner
- 2 - Add an event
- 3 - Change the start time of an event
- 4 - Change the duration of an event
- 5 - Change the description of an event
- 6 - Remove an event
- 7 - Exit

```

Your choice (1-7): 1

```

```
Current planner has 1 event(s).
```

```

[0]23:00-23:15/feed angel fish

```

```
Please select from the following options:
```

Sample run with keyboard input.  
Demonstrate error messages/report.

Menu option not supported.

1 - Show current planner  
2 - Add an event  
3 - Change the start time of an event  
4 - Change the duration of an event  
5 - Change the description of an event  
6 - Remove an event  
7 - Exit

-----  
Your choice (1-7): 3  
Please select the event number to change: 4  
Invalid event number!  
-----

Invalid event index number.

Please select from the following options:

1 - Show current planner  
2 - Add an event  
3 - Change the start time of an event  
4 - Change the duration of an event  
5 - Change the description of an event  
6 - Remove an event  
7 - Exit

-----  
Your choice (1-7): 3  
Please select the event number to change: 0  
You select to change this event:  
23:00-23:15/feed angel fish  
Please enter the new starting hour of the event (0-23): 50  
Please enter the new starting minute of the event (0-59): 0  
Hour must be within [0, 23]; Minute must be within [0, 59]!  
-----

Invalid time setting.

Please select from the following options:

1 - Show current planner  
2 - Add an event  
3 - Change the start time of an event  
4 - Change the duration of an event  
5 - Change the description of an event  
6 - Remove an event  
7 - Exit

-----  
Your choice (1-7): 3  
Please select the event number to change: 0  
You select to change this event:  
23:00-23:15/feed angel fish  
Please enter the new starting hour of the event (0-23): 23  
Please enter the new starting minute of the event (0-59): 50  
Event cannot be changed!  
-----

Cannot change the start time if end time goes beyond 23:59 of the same day.

Please select from the following options:

1 - Show current planner  
2 - Add an event  
3 - Change the start time of an event  
4 - Change the duration of an event  
5 - Change the description of an event  
6 - Remove an event  
7 - Exit

-----  
Your choice (1-7): 4  
Please select the event number to change: 0

You select to change this event:  
23:00-23:15/feed angel fish  
Please enter the new duration in minutes: -9  
Event cannot be changed!

-----

Duration cannot be negative.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 4

Please select the event number to change: 0  
You select to change this event:  
23:00-23:15/feed angel fish  
Please enter the new duration in minutes: 60  
Event cannot be changed!

-----

Cannot change the duration if end time goes beyond 23:59 of the same day.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 5

Please select the event number to change: 4  
Invalid event number!

-----

Invalid event index number (to update description).

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 6

Please select the event number to remove: 2  
Invalid event number!

-----

Invalid event index number (to remove).

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
-

Your choice (1-7): 1

-----  
Current planner has 1 event(s).  
-----

[0]23:00-23:15/feed angel fish  
-----

No changes applied.

Please select from the following options:

- 1 - Show current planner
  - 2 - Add an event
  - 3 - Change the start time of an event
  - 4 - Change the duration of an event
  - 5 - Change the description of an event
  - 6 - Remove an event
  - 7 - Exit
- 

Your choice (1-7): 7

Good-bye!