cook some nice food. Pretty busy, right? With this new tool, a student can manage and organise his time more efficiently.

## 2. Quick Start

- 1. Please ensure that you have Java 11 or above installed.
- 2. Download the latest leduc jar file.
- 3. Execute the jar file.
- 4. Type the command in the shell.
- 5. Please refer to FeaturesSection 3, @FeaturesD

```
Hello I'm Dube

What can I do for you ?

All command will be display as:

CL parameter providing i description of the command playmane providing in the parameters are:

DESCRIPTION: the description of a teak providing in the providing in the parameters are:

DESCRIPTION: the description of a teak providing in the providing in the parameters are:

DESCRIPTION: the control of the task (open in to ...)

KEYMOND: the keyword to find a teak playman providing in the providing in the parameters are:

EXTRACTION DIMENTIAL TO A TEACH PROVIDING IN THE PROVIDE IN THE PROVIDING IN THE PROVIDE IN THE PROVIDING IN THE PROVIDE IN THE PROVIDE IN THE PROVIDING IN THE PROVIDE IN THE
```

## 3. Features

#### **Command Format**

- All whitespaces must be respected.
- Words in UPPER\_CASE are parameters the users have to write:
  - DATE: The date format must be dd/MM/yyyy hh:mm where dd is the days, MM is the months, yyyy is the years, hh is the hours and mm is the minutes.
  - DESCRIPTION: The description of the task
  - WELCOME: the welcome message
  - INDEX is the index of the task (goes from 1 to the number of tasks). You can find the index of the task by showing all the task with the command list of by searching the task with the command find.
  - KEYWORD: the keyword to find a task.
  - SORTTYPE: date, description, priority, type or done

## 3.1. Viewing all the command: help

To show the list of all command: help

### Example:

help

### 3.2. Adding a todo task: todo

To add a todo task: todo DESCRIPTION An option could be added to give a priority to the task: todo DESCRIPTION prio INDEX

#### Be careful:

- The second INDEX cannot be less than 1 or greater than 9.
- 1 is the less urgent, 9 is the most urgent

### Examples:

- · todo read book
- todo buy book
- todo sell book prio 3

## 3.3. Adding a homework task: homework

To add a homework task: homework DESCRIPTION /by DATE

An option could be added to give a priority to the task: homework DESCRIPTION /by DATE prio INDEX

An other option could be added to give recurrence to the task: homework DESCRIPTION /by DATE recu
DATETYPE NBRECU Be careful:

- The second INDEX can't be less than 1 or greater than 9.
- 1 is the less urgent, 9 is the most urgent
- DATETYPE can be day, week, month
- NBRECU indicate the number of recurrence +1 you want
- If you want to add recurrence and priority, prio should be before recu
- The NBRECU can't be negative
- Depending on the DATETYPE, the NBRECU have a maximum threshold: for day, NBRECU can't exceed 30, for week NBRECU can't exceed 26, for month NBRECU can't exceed 12. Every time it exceeds, it will be brought back to the threshold

### Example:

- homework CS4239: lab3 /by 21/09/2019 23:59
- homework CS4239: lab4 /by 25/09/2019 23:59 prio 7
- homework test code /by 25/09/2019 23:59 recu day 3: will create 4 homework, from 25/09/2019 to 28/09/2019
- homework write UG /by 23/09/2019 23:59 prio 7 recu month 1: will create 2 homeworks of priority 7, with date 23/09/2019 and 30/10/2019

```
homework write UG /by 23/09/2019 23:59 prio 7 recu month 1

Here are the tasks in your list:

25. [H][X] write UG by: 23/09/2019 23:59 [Priority: 7]

26. [H][X] write UG by: 23/10/2019 23:59 [Priority: 7]
```

## 3.4. Adding a event task: event

To add an event task: event DESCRIPTION /at DATE - DATE An option could be add to give a priority to the task: event DESCRIPTION /at DATE - DATE prio INDEX An other option could be added to give recurrence to the task: vent DESCRIPTION /at DATE - DATE recu DATETYPE NBRECU Be careful:

- When creating an event, two dates can't clash
- The second INDEX can't be less than 1 or greater than 9.
- 1 is the less urgent, 9 is the most urgent
- DATETYPE can be day, week, month
- NBRECU indicate the number of recurrence +1 you want
- If you want to add recurrence and priority, prio should be before recu
- If, by creating a recurrence, the date of the next occurence of the event is in conflict with the

previous one, it will

- You can't create a recurrence of an event when the second date minus first date > DATETYPE: For example 07/12/2019 09:00 08/12/2019 11:00 have second date minus first date superior as the day DATETYPE
- The NBRECU can't be negative
- Depending on the DATETYPE, the NBRECU have a maximum threshold: for day, NBRECU can't exceed 30, for week NBRECU can't exceed 26, for month NBRECU can't exceed 12. Every time it exceeds, it will be brought back to the threshold

### Example:

```
event CS4211: mid-term /at 07/10/2019 09:00 - 07/10/2019 11:00
```

- event CS4211: final exam /at 07/12/2019 09:00 07/12/2019 11:00 prio 8
- event CS4211: sport /at 07/10/2019 09:00 07/10/2019 11:00 recu day 3: will create 4 event
- event CS4211: cooking session /at 07/12/2019 09:00 07/12/2019 11:00 prio 8 recu week 2: will create 3 event, each with 1 week apart

```
event CS4211: cooking session /at 07/12/2019 09:00 - 07/12/2019 11:00 prio 8 recu week 2

Here are the tasks in your list:
22. [E][X] CS4211: cooking session at: 07/12/2019 09:00 - 07/12/2019 11:00
[Priority: 8]
23. [E][X] CS4211: cooking session at: 14/12/2019 09:00 - 14/12/2019 11:00
[Priority: 8]
24. [E][X] CS4211: cooking session at: 21/12/2019 09:00 - 21/12/2019 11:00
[Priority: 8]
```

## 3.5. Search for a task by relevancy: find

To find a task by character relevancy: find QUERY

The find command allows the user to search for tasks via character matching (NOT keyword matching). The command will return the top 5 tasks ordered by ascending relevancy.

Typos in the user query will not affect performance.

Examples:

### Partial word query

find scie
Here are the most relevant tasks in your list: 7. □H□□V□ science by: 05/05/2005 05:05 □Priority: 2□
Typo in Query
find homewqeuktest
Here are the most relevant tasks in your list:  6. □H□□V□ homeworktest by: 04/04/2004 04:04 □Priority: 5□
If all tasks have <50% matching characters with the query
There is no matching tasks in your list
3.6. Delete a task: delete
To delete a task delete INDEX
Example:
□ delete 1
3.7. Show all the tasks: list
To show all the taskslist
Example:
□ list

### 3.8. Mark a task as done: done

To mark a task as done: done INDEX

Example:

• done 2

### 3.9. Snooze a homework task: snooze

To snooze a homework task: snooze INDEX The snooze time is fixed at 30 minutes.

Example:

• snooze 2

## 3.10. Postpone a homework task: postpone

To postpone a homework task: postpone INDEX /by DATE.

DATE is the new date of the homework task. The new date should be after the old one.

Example:

• postpone 2 /by 12/12/2020 22:10

### 3.11. Reschedule an event task: reschedule

To reschedule an event task: reschedule INDEX /at DATE - DATE.

Be careful: when rescheduling an event, two dates can't clash

Example:

• reschedule 3 /at 12/12/2020 10:00 - 12/12/2020 12:00

## 3.12. Reminder for upcoming tasks: remind

Reminds the user of the 3 most early, unfinished tasks: remind

Example:

remind

```
remind
```

```
    [H][X] test by: 01/01/2001 01:01 [Priority: 5]
    [H][X] math by: 11/11/2011 01:01 [Priority: 5]
```

5. [E][X] e at: 21/09/2019 00:00 - 28/10/2019 22:22 [Priority: 5]

### 3.13. Edit a task: edit

- Multi-steps command: to edit a task, follow these instructions:
  - 1. edit
  - 2. All of the tasks will be displayed, you have to choose a task INDEX
  - 3. Depending on the type of task:
    - If it is a todo task, you have to enter the new DESCRIPTION
    - If it is not a todo task, you have to choose 1) if you want to edit the description or 2) if you want to edit the date
      - Then, enter the new DESCRIPTION or the new DATE of the task
- For one shot command:
  - edit the description: edit INDEX description DESCRIPTION
  - edit the date of an homework task: edit INDEX /by DATE
  - edit the period of an event task: edit INDEX /at DATE DATE

### Examples:

- Edit the description of the task 2 (todo task)
  - Multi-steps command
    - edit
    - **2**
    - DESCRIPTION
  - One shot command
    - edit 2 description DESCRIPTION
- The task 3 is a event task:
  - Multi-steps command
    - edit
    - **3**
    - **2**
    - DATE DATE
  - One shot command
    - edit 3 /at DATE DATE
- The task 2 is a homework task:
  - Multi-steps command
    - edit
    - **2**
    - **2**

edi	it 🛘
-	ne shot command Please choose the task to edit from the list by its index:
	Here are the tasks in your list:  1. □H□□X□ math assignment 1 by: 07/11/2019 23:59 □Priority: 5□  2. □H□□V□ Software Security lab 2 by: 08/11/2019 23:59 □Priority: 5□  edit 2 /by DATE
2	<del></del>
•	Please chaise what 2/01/2019 12:2dit (1 or 2) 1. The description 2. The deadline/period
2	
- - -	Please enter the new deadline of the task The task is edited:
12/	12/2019 22:22
	The task is edited:  □H□□V□ Software Security lab 2 by: 12/12/2019 22:22 □Priority: 5□
	3 1/1 Customize the welcome message:

### 3.14. Customize the welcome message :

- One shot command
  - ∘ edit 2 /by DATE

To customize the welcome message:
©HHJ[VV]□Sx <del>F7;4mmple:</del> 

# 3.14. Customize the welcome message: setwelcome

To customize the welcome message: setwelcome WEECONEME

Example:

 $\blacksquare$   $\square$ riginal welcome message:



• setwelcome hello World

setwelcome Hello World
The welcome message is edited: Hello World

• New welcome message:

   _ \ _		
Hello World	 	

Be careful:

\*Reverting to the previous welcome message is not possible once a new message is set. \*Ensure the folder "data" is in the correct location. The welcome message is stored in this folder.

## 3.15. Exit the program: bye

To exit the program : bye

### Example:

□ bye

## 3.16. Display Statistics: stats

Display statistics stats

Display useful statistics about your tasklist.

Enter commandstats to view general statistics. to view detailed priority statistics.

### Example:

□ stats

### **General Statistics Example:**

stats
Here are some general statistics about your task list: Number of tasks: 8.0 Number of Todo[]s: 3 Number of Events: 1 Number of Homeworks: 4 Number of Uncompleted Tasks: 5 Number of Completed Tasks: 3 Percent Complete: 37.5[]
Percent Complete: 37.5

□ stats -c

**Completion Statistics Example** 

#### • stats -p

Priority Statistics Example:

```
stats -p
Here are some priority statistics about your task list:
----PRIORITY COUNTS----
Number of tasks with priority 9: 0
Number of tasks with priority 8: 0
Number of tasks with priority 7: 0
Number of tasks with priority 6: 0
Number of tasks with priority 5: 12
Number of tasks with priority 4: 0
Number of tasks with priority 3: 0
Number of tasks with priority 2: 1
Number of tasks with priority 1: 0
----PRIORITY PERCENTAGES----
Percent of tasks with priority 9: 0.0%
Percent of tasks with priority 8: 0.0%
Percent of tasks with priority 7: 0.0%
Percent of tasks with priority 6: 0.0%
Percent of tasks with priority 5: 92.3076923076923%
Percent of tasks with priority 4: 0.0%
Percent of tasks with priority 3: 0.0%
Percent of tasks with priority 2: 7.6923076923076925%
Percent of tasks with priority 1: 0.0%
```

### 3.17. Sort by: sort

Sort all task by date, description, priority, type of task or either it is done or not: sort SORTTYPE

SORTTYPE is either date, description, priority, type or done

#### Be careful:

- Sorting by date will sort tasks in chronological order
- Sorting by description will sort the descriptions in alphabetical order
- Sorting by priority will sort tasks in ascending urgency
- Sorting by type will sort tasks depending on its task type ( event, homework, todo)
- Sorting by done will sort tasks depending on it the task is done or not

### Examples:

- sort date
- sort priority
- sort description
- sort type
- sort done

## 3.18. Prioritize: prioritize

Giving priority to task: prioritize INDEX prio INDEX

The first INDEX is the task index

The second INDEX is the priority (goes from 1 to 9)

#### Be careful:

- The second INDEX can't be less than 1 nor greater than 9.
- 1 is the less urgent, 9 is the most urgent
- When creating a task, specifying the priority is optional. When the priority is not specified, the task will automatically have a priority of 5.

#### Example:

- prioritize 4 prio 2
- prioritize 5 prio 8

## 3.19. Display by day/week/month: show

Display all the task for one particular day/week/month: show DATETYPE DATE

DATETYPE is day, dayofweek, today, week, month, year.

The DATE argument depends on the DATETYPE

- day:
  - shows all the tasks for the given date
  - DATE: DD/MM/YYYY
- dayofweek:
  - shows all the tasks for the given day of week
  - DATE: monday, tuesday, wednesday, thursday, friday, saturday, sunday
- today:
  - shows all the tasks for the user's today
  - DATE: nothing should be written!!
- · week:
  - shows all the tasks, starting from user's today to 7 days later (the last days is not included)
  - DATE: nothing should be written!!
- month:
  - shows all the tasks for the given month
  - DATE: MM/YYYY
- year
  - shows all the tasks for the given year
  - DATE: YYYY

There are two behaviour, one line command and multi-step command

Example (one line command):

- show day 29/10/2019
- show dayofweek monday
- show today
- show week
- show month 10/2019
- show year 2019

Example (multi-step command):

- show day
- The console ask to enter the day:
- 29/10/2019

- show dayofweek
- The program ask to enter the day:
- monday

### 3.20. Shortcut: shortcut

Give shortcut to command: shortcut COMMANDNAME SHORTCUTNAME

COMMANDNAME is the name of the command (like todo, sort, show ...)

SHORTCUTNAME is the new shortcut name for the command

There are three behaviour: One line command, multi-step command, multi-step customize all command

#### Be careful:

- There can't be 2 same shortcut name.
- The shortcut name can't be the same as one of the default command name (for example, the shortcut name can't be todo because it is a default command name).

Example (One line command):

- shortcut todo t
- shortcut prioritize prio

Example (multi-step command):

- shortcut todo
- The program ask to enter the shortcut
- t

Example (multi-step customize all command)

- shortcut
- The program enter in customize shortcut mode
- The program display the first command with his shortcut and ask to enter for a new shortcut name
- shortcutname
- The program display the first command with his shortcut and ask to enter for a new shortcut name
- shortcutname2

- ...
- The program display all the shortcut

### Be careful:

- There can't be 2 same shortcut name. If we enter a shortcut that already exists, we are in one line command or multi-step command behaviour, it will show an error, and if we are in multi-step customize all command, it will ask again.
- The shortcut name can't be the same as one of the default command name (for example, the shortcut name can't be todo because it is a default command name).

For each command, the console will output the command name.

The user (you) have to input the shortcut you want.

If the shortcut already exists, the console will tell you to assign another shortcut

### 3.21. View Unfinished tasks: unfinished

Find and display all unfinished tasks: unfinished

### Example:

- unfinished
- Output:

```
unfinished

Here are the unfinished tasks in your list:

1. [T][X] td1 [Priority: 5]

2. [E][X] e at: 21/09/2019 00:00 - 28/10/2019 22:22 [Priority: 5]

3. [H][X] math by: 11/11/2011 01:01 [Priority: 5]

4. [H][X] test by: 01/01/2001 01:01 [Priority: 5]
```

## 3.22. Change language: language

Change the language for all the display message: language LANGUAGE

LANGUAGE can be en or fr (only two language is available). The language will be set after the program is closed and open again. Example :

- language fr
- language en

## 3.23. Create task list (not implemented yet)

Create a different task list: tasklist DESCRIPTION

DESCRIPTION is the name of the new tasklist

Be careful:

- The first tasklist will be name main task list, except if it is edited (can't be done for the moment)
- Each new tasklist will have an index automatically

## 3.24. Display different task list (not implemented yet)

Display different task list, for example one task list for school, one task list for work: display tasklist INDEX.

INDEX is the task list index (if exist)

## 3.25. Import other task list (not implemented yet)

If the user want to import another task list: Import FILENAME.

The FILENAME is path to the file

Be careful:

- The file must be in the same format as every file in the project
- The file must be in the directory data

### 3.26. Subtask (not implemented yet)

You can create a subtask of another task: when creating the task, just add sub\_INDEX at the end.

INDEX is the index of the task

## **4. FAQ**

- Q) Will there be more feature?
- A) Yes, if we have enough imagination and time and energy.
- Q) Will there be more language?
- A) Of course!

# 5. Command Summary

• help help

• todo: todo DESCRIPTION

homework: homework DESCRIPTION /by DATE

• event: event DESCRIPTION /at DATE - DATE

• find: find KEYWORD

• delete : delete INDEX

• list: list

• done : done INDEX

• snooze: snooze INDEX

• postpone: postpone INDEX /by DATE

• reschedule : reschedule INDEX /at DATE - DATE

• remind : remind

edit: edit and follow the instructions or edit INDEX description DESCRIPTION or edit INDEX /by
 DATE or edit INDEX /at DATE - DATE

• setwelcome : setwelcome WELCOME

bye : bye

• stats: stats or stats -c or stats -p

• sort: sort SORTTYPE

• prioritize: prioritize INDEX prio INDEX

• display: display DATETYPE DATE

• shortcut: shortcut COMMANDNAME SHORTCUTNAME

• unfinished: unfinished

• language : language LANGUAGE

### Not implemented yet

create a tasklist: tasklist DESCRIPTION

display tasklist: display tasklist INDEX

• import file: Import FILENAME

• subtask: when creating the task, just add sub\_INDEX at the end