

## MAC OS X

### Python Installation

Go to [python site](https://python.org) and navigate to the `Downloads` page



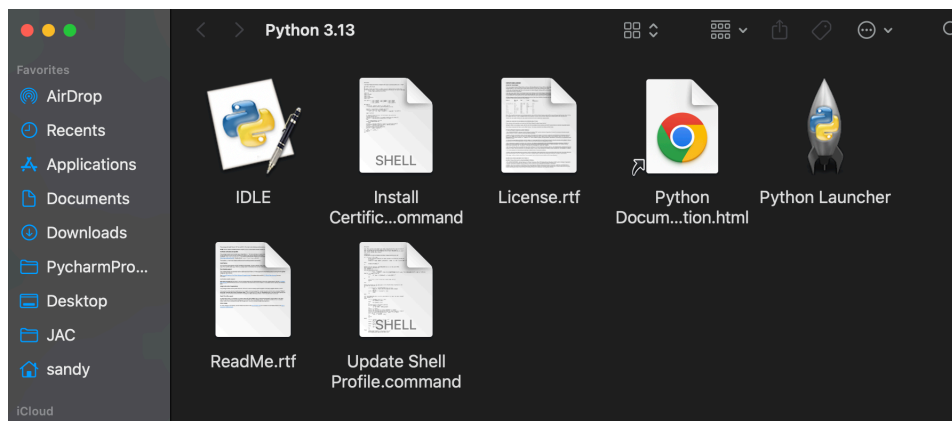
Download python.

You should see an installation program icon in your task bar



Double click this icon, and accept all default options.

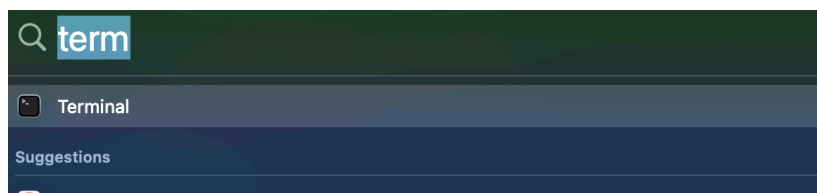
Once installation is complete, you should see the following 'finder' window pop-up



Double click the "update Shell" icon

### Validation

Use the search tool (Command-spacebar) open a terminal window



Type the following in the terminal window

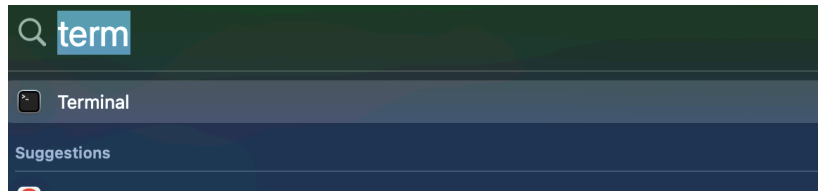
```
1 | python3 --version
```

The version number should be the same python that you installed

```
[~] python3 --version
Python 3.13.7
[~]
```

### Install Dependencies

Use the search tool (Command-spacebar) open a terminal window



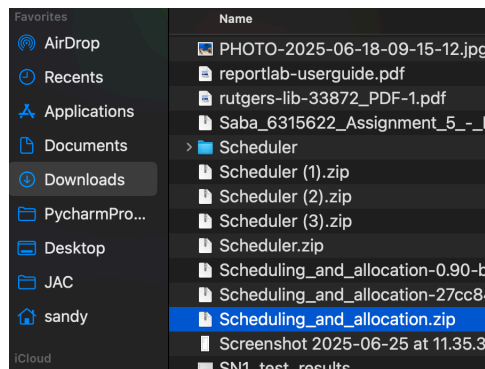
Type the following in the terminal window

```
1 | python3 -m pip install reportlab
```

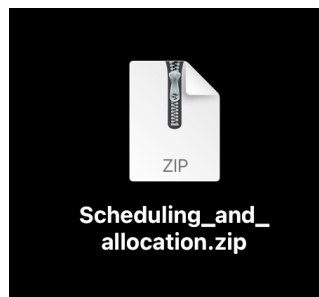
```
1 | python3 -m pip install pillow
```

## Application Installation

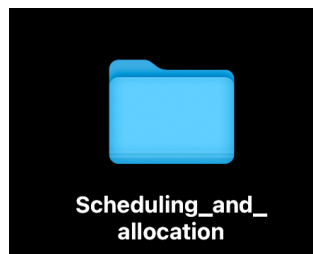
Download zip file to your Mac (it will be located in your downloads folder)



Copy this file to your Desktop (drag'n'drop, or cut'n'paste)



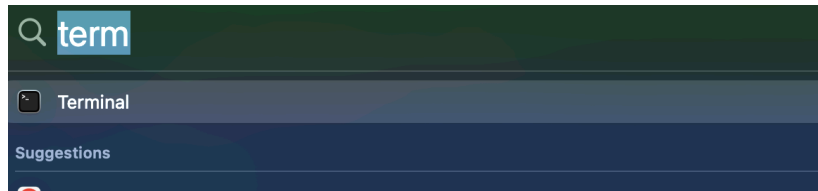
Double click the icon, and you will have a new icon on your desktop.



At this point you can remove the zip file

## Running the program(s)

Use the search tool (Command-spacebar) open a terminal window



Navigate to the correct directory

```
1 | cd Desktop
2 | cd Scheduling_and_allocation
```

```
[~] cd Desktop/
[~/Desktop] cd Scheduling_and_allocation
[~/Desktop/Scheduling_and_allocation]
```

Run either the scheduler or allocation program

```
1 | python3 SchedulerProgram.py
```

```
[~/Desktop/Scheduling_and_allocation]
[~/Desktop/Scheduling_and_allocation] python3 MAC_SchedulerProgram
```

```
1 | python3 AllocationManager.py
```

```
[~/Desktop/Scheduling_and_allocation]
[~/Desktop/Scheduling_and_allocation] python3 MAC_AllocationManager
```