

Project Template

In this file, we give you some general guideline and advices for the project. You need two components:

1. Python 3.6
2. CBC solver

Python

Linux users should have python already installed in their PC. For the other users I strongly recommend to install **Anaconda** and to use its terminal for installing new packages. You can find details [here](#) and [there](#).

CBC solver

In order to install CBC, for Linux users just run the following command:

```
apt-get install coinor-cbc
```

For other users, I suggest to follow the instructions on the [CBC web page](#).

For Windows users, you need to add the path of the executable files of both solvers (e.g. *CoinAll-1.60-win64-intel11.1/bin*) to the PATH variable using this [tutorial](#). Then Restart Windows. In order to check if the procedure works, you can run

```
cbc.exe
```

from your terminal.

If you are not able to install CBC you can also use GLPK, you can find the instruction [here](#).

Python packages:

Probably you will need to install several packages (e.g., pulp, numpy, etc). In linux my suggestion is to use pip

```
pip3 install <package name>
```

e.g.,

```
pip3 install pulp
```

For windows is suggest to use conda.

```
conda install -c conda-forge pulp
```

Run the code:

Run the code by writing in the terminal

```
python3 main.py
```

and enjoy...

Report

For the final report you can use both Word or Latex. I strongly suggest the second one because it is more suited to deal with equations, models, graphs, etc. A really nice website that enables you to work together and deals with all the package issues of latex is [Overleaf](#). In the folder *report* you have a latex template that you can directly load on overleaf. A useful link for creating latex table is [here](#) The folder report contains a latex template with some examples.

Text Editor

In order write good code you need a good editor. The best ones that I recomend are:

1. [Visual Studio Code](#) free;
2. [Sublime Text](#) free for non commercial usage;
3. [PyCharm](#) free for students.