

❖ Files Available

- Installation Guide
 - In this file , a guide is given about, How to run the code.
- AIFA Assignment
 - In this file, A complete approach to the problem is discussed.
- aifa.py
 - In this file, the code of the File which gives optimal solution is given in .py format.
- aifaheuristic.py
 - In this file, the code of the file which gives a heuristic solution is given in .py format.

❖ System Requirement for Python Installation

- Operating system
 - Linux- Ubuntu 16.04 to 17.10
 - Windows 7 to 10, with 2GB RAM (4GB preferable)
- You have to install Python 3.6 and related packages, please follow the installation instructions given below as per your operating system

❖ The procedure to install Python 3 on Ubuntu Linux OS:

Install Python 3.6: 1.

- To follow the installation procedure, you need to be connected to the Internet.
 - Open the terminal by pressing Ctrl + Alt + T keys together.
3. Install Python 3.6:
- For Ubuntu 16.04 and Ubuntu 17.04: i. In the terminal, run the command `sudo apt-get install python3.6`
 - Press Enter.

- The terminal will prompt you for your password, type it in to the terminal.
- Press Enter.
- For Ubuntu 17.10 and above, the system already comes with Python 3.6 installed by default
- ❖ **The procedure to install Python 3 on Windows OS: Install Python 3.6:**
 - To follow the installation procedure, you need to be connected to the Internet.
 - Visit <https://www.python.org/downloads/release/python-368/>
 - At the bottom locate Windows x86-64 executable installer for 64 bits OS and Windows x86 executable installer for 32 bits OS
 - Click on the located installer file to download.
 - After download completes, double click on the installer file to start the installation procedure.
 - Follow the instructions as per the installer
- ❖ **Install Numpy, Matplotlib and Ipython:**
 - Open the cmd/Terminal window
 - Type in the following commands followed by the Enter key:
 - `python -m pip install numpy`
 - `python -m pip install ipython`
 - `python -m pip install matplotlib`
- ❖ **Running the code on Notebook**
 - Jupyter Notebook
 - Open the .py file from “File Location”.
 - Press Shift + Enter to Run the code.
 - Collab
 - Save the File in collab cloud
 - Open the file from location
 - Run the code by clicking Play Button