**Minimum Hardware Requirements:**

1. Processors: Intel Atom® processor or Intel® Core™ i3 processor
2. Disk space: 1 GB
3. Operating systems: Windows\* 7 or later, macOS, and Linux

**Minimum Software Requirements:**

1. Python versions: 3.6.X
2. Compatible tools: Microsoft Visual Studio, PyCharm
3. Windows: Python 3.6.2, PIP and NumPy 1.13.1
4. Ubuntu: Python 2.7 or Python 3.x, PIP and Numpy.
5. Included Python packages: NumPy, SciPy, Matplotlib, Networkx, Pylab.

**User Guide for Program Execution on Windows using IDLE (Python 3.6X):**

1. First, right click on the source code, named “run.py”
2. Then choose “Edit with IDLE”.
3. The code will be opened in a file editor.
4. Before the execution of the code, make sure the above included packages are already installed on your computer.
5. For installation of packages refer below section.
6. Once the packages are installed, press F5 to run the code.
7. If any changes were made to the code, the editor will prompt to save the code before the execution.

**User Guide for Program Execution on Ubuntu using IDLE (Python 3.6X):**

1) First open the terminal.

2) Then move to the location of python file using cd command.

3) Now, run the program by entering “python3 run.py”.

**Installing packages for Windows:**

1. Assuming that Python and PIP are already installed on Windows.
2. Open Command Prompt.
3. Type “pip install *library name*”.
4. Type the name of the library to install the module.
5. For eg: “pip install networkx”
6. Once the installation is done, close the editor and open it again to reflect the changes.

**Installing packages for Linux (Ubuntu):**

1. First install python3 in ubuntu.
2. Then install matplotlib, numpy by entering following command in terminal:

“sudo apt-get install python3-numpy python3-matplotlib”.

1. Install networkx by entering “pip install networkx” in terminal.