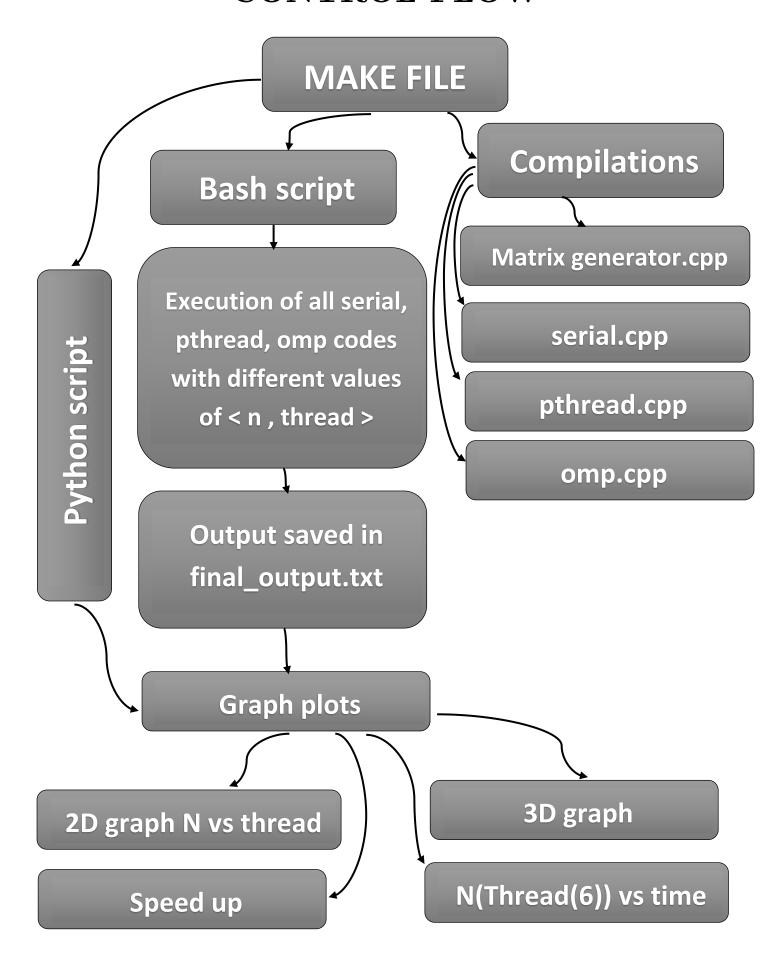
CONTROL FLOW



FILE DESCRIPTION

File names	Description
matrix_generator.cpp	Contains source code to generate random $n \times n$ matrix.
serial.cpp	Contains source code to get LU decomposition of input matrix serially. (i.e., without multithreading)
pthread.cpp	Contains source code to get LU decomposition of input matrix parallelly. (using $pthreads$)
omp.cpp	Contains source code to get LU decomposition of input matrix parallelly. (using <i>OpenMp</i>)
looper.sh	 Bash file used to:- save matrix generated by input.cpp to a text file. Run all the 3 implementations i.e., serial, pthread and openmp for different matrix sizes and threads. Save the output of the above three programs into a text file so that they can be used for analysis.
graph_plot.py	 Python script used to :- Read data from the text file that contains all the output. Plot required graphs by making use of appropriate libraries.
MakeFile	Contains code to invoke all the above mentioned programs and finally display required plots on screen.