Operation of the Schedule Optimization MATLAB Program

1. The two excel files that are used in the program are downloaded and named: CSCD.xlsx (Couse Size for Course Demand) and CCC.xlsx (Common Course Combinations).
2. Within the excel file labeled CSCD, the Academic Plan Identifier and Start Times columns are both strings.
3. Create a vector with the times (as many as wanted) that are to be compared to find the most convenient time slot for the new course section. Using the following syntax:
   * times (“XX:XX:XX AM(or PM if class is in the afternoon)”, ……….);
4. Next create a call for the program using the syntax below:
   * find\_best\_time (‘X’, ‘X’, ‘X’, ‘X’, ‘X’, times, “Course Name”)
   * ‘X’ is the capital first letter of the day (with Thursday being ‘R’) , or ‘0’ if that day is being omitted.
5. The program will then search to find the number of available students to take the course at the time slots that were inputted.
6. The code will then determine the optimal time to maximize the number of students that can take the course and then output that time in the same format as was entered.

Example Program Call:

User wants to determine the optimal time to open a section of Econ 104 on Tuesday and Thursday between 10 AM and 12 PM.

times (“10:00:00 AM”, “11:00:00 AM”, “12:00:00 PM”);

find\_best\_time (‘0’, ‘T’ , ‘0’ , ‘R’ , ‘0’, times, “Econ 104”)