**Assumptions:**

1. No room deficiency.
2. All students of one section fill in one room for theory classes.
3. Half students of one section fill in one room for practical classes.
4. Sections=2;
5. Weekdays=5;
6. Total credit 1 teacher can take = 12 [For only these 2 sections. Meaning he/she can take upto 6 credits in a single section and no more. A teacher has to take the courses he/she chose in both the classes.
7. A single course will be taken by only 1 teacher.
8. Number of classes =credits
9. Credits will be integers
10. Duration of 1 theory class = 50 mins

Duration of 1 practical class = 100 mins or 1 hour 40 mins

**Algorithm:**

1. Create structure for course, teacher, weekday, section and another one for all the total values of stuff like total course, total classes in week etc.
2. Create files to read the courses from and to print the routine in.
3. Scan and store the courses name along with their credits.
4. Calculate total number of classes needed in a week for one section. Calculate total number of classes needed in a day.

[Note total number of classes for a day may differ. Currently by default, classes are given as 1st class in the whole week on day1 slot 1, 2nd class on day2 slot 1, 6th on day1 slot 2 and so on. Options to choose days will be added later.

1. Scan the total number of teachers and the number and name of courses each will take. Also calculate his/her total credit to see if it crosses the credit limit.
2. Calculate total classes in a week for each teacher.
3. Assign classes for each teacher in a week. Print it.
4. Assign the courses for each working day. Print it
5. Also print them in a file.

**WHAT STILL NEEDS TO BE DONE:**

* Add the option to choose days

[See Algorithm point number 4]

* Add the preference option.
* Add the name of the project
* Make the printed part of the routine more atrractive.