Team Meeting 07

Date: September 21, 2018

Day: Friday

Time: 2:00 p.m

Duration: 2hrs

Attendees:

1. Aman Yadav (201651007)
2. Dakshkumar Gondaliya (201651014)
3. Kirtika Singhal (201651024)
4. Mayank Pathela (201651029)
5. Nikhil Sachan (201651034)
6. Parmeshwar (201651035)

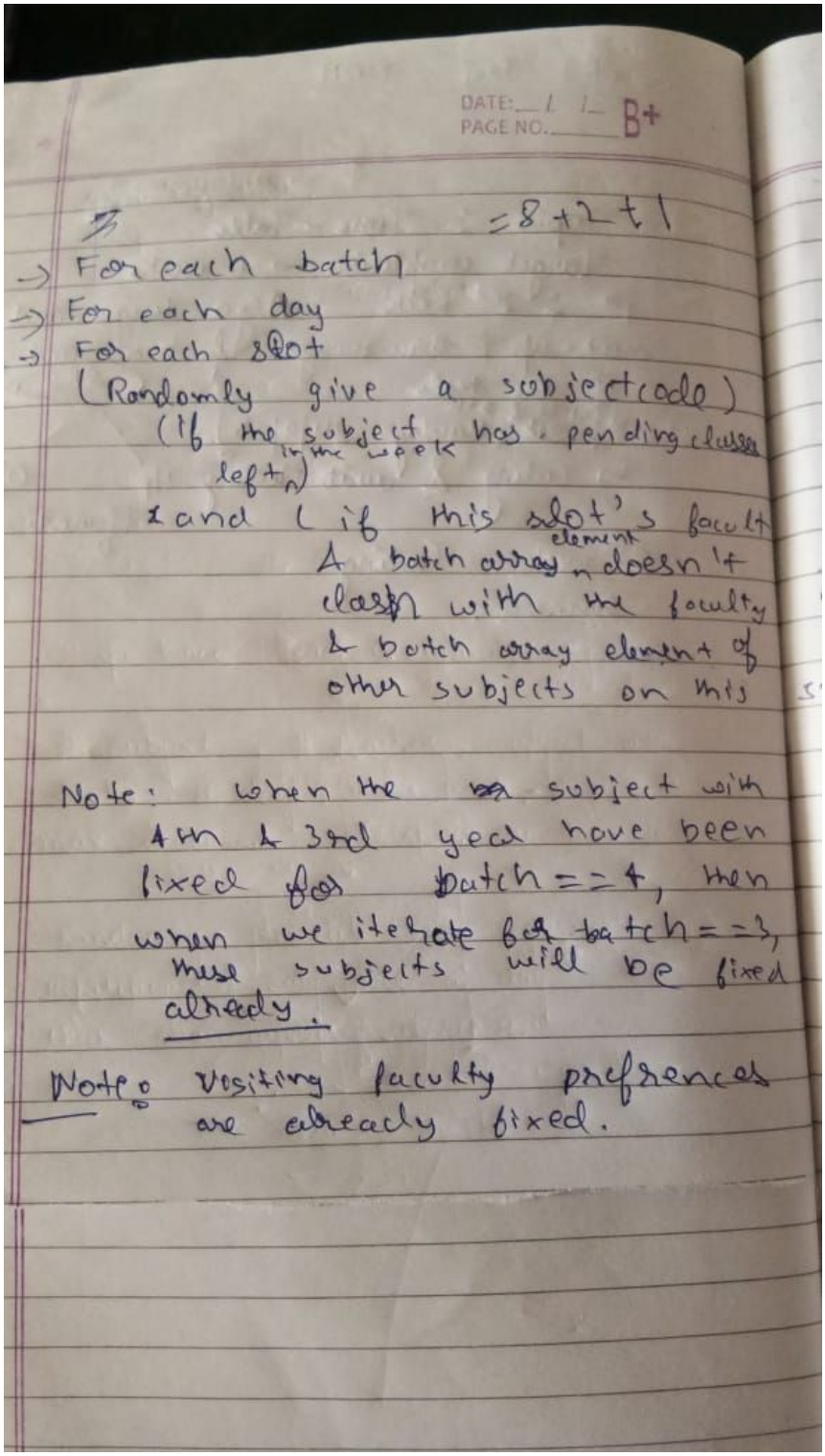
Goals:

1. To design an algorithm for automated time-table generation.

Discussions:

- Preference of days to be taken from visiting faculties only because our institute faculty should be available daily.
- The user will be admin and visiting faculty.
- Admin will fill in all the details like different time-slots in a week, number of maximum number of lectures for a faculty, number of days, subject course code and corresponding faculty.
- Visiting faculty will provide the preferred days and time.
- When all details are made available, then admin will generate the time-table.
- Constraints:
    - Hard Constraints:
        - Number of classrooms and class capacity sufficient.
        - No faculty can take the lecture in two different classes at the same time.
        - No batch at the same for different faculties.
    - Soft Constraints:
        - Visiting faculty preferences may not be considered if no solution is given by considering them.
        - Different batches with the same course code and the same faculty will have the same class.

Algorithm:



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-> For each batch
-> For each day
-> For each slot
(Randomly give a subject code)
(if the subject has pending classes in the week left)
and (if this slot's faculty & batch array element doesn't clash with the faculty & batch array element of other subjects on this

Note: When the subject with 4th & 3rd year have been fixed for batch == 4, then when we iterate for batch == 3, most subjects will be fixed already.

Note: Visiting faculty prefrences are already fixed.

Conclusion:

The created algorithm is modifiable and till now we have not considered scheduling according to the classes of TAs. First, we will try to generate the timetable by considering that M.tech batch does not take labs or tutorials of the B.tech batch. Then, if successfully generated can add this functionality.

Tasks Assigned:

To implement the algorithm and work on skills required for UI.

Next Meeting Agenda:

To discuss the problems if any in algorithm and work for optimization.