

# PROJECT REPORT

## Problem Statement

To generate a time table using files (output is stored in the text file)

## Description

- (Line: 3-7)The subjects and faculty names are declared using structure datatype.
- (Line: 15-18)The input of class and section is given by user.
- (Line:19-25) The subject name and corresponding faculty name is entered by the user depending on the total number of subjects given.
- (Line:28-132) For each day, we can chose the number corresponding to the subject from the given list for each period and store it in an array. If you enter the subject number which is not in the list, error message will appear.
- (Line:134)The output (time table) is stored in text file.
- (Line: 145-263)We check the whether the entered subject numbers and the numbers given in the list are equal, if so, the corresponding subject names are printed in the output.
- (Line: 264-268) The subject and faculty names which are given as input by the user is also printed in the output.

## C-concepts used

- Basic concepts of C (for loop, if loop)
- Structures
- 1D Array
- File concepts (file pointer)

## Learning Outcome

Application of the taught concepts of C to generate a timetable.

Got knowledge about using file concept in C

## Output Screenshots

### INPUT\_DISPLAY

```
C:\Users\Shreya\Desktop\lab1>a

Enter the semester:2

Enter section name:m

Enter total no.of subjects:7

Enter subject name and faculty name:math leela

Enter subject name and faculty name:chem bmb

Enter subject name and faculty name:comp vinay

Enter subject name and faculty name:bio Jhinuk

Enter subject name and faculty name:EC sumanth

Enter subject name and faculty name:mech basavraj

Enter subject name and faculty name:chemlab vbs


                        TIME TABLE GENERATOR


Enter timetable for Monday
Choose the subject from the list:
1.math   2.chem   3.comp   4.bio   5.EC   6.mech   7.chemlab

Enter subject for period 1:1

Enter subject for period 2:2
```

Enter subject for period 2 : 2

Enter subject for period 3 : 3

Enter subject for period 4 : 6

Enter subject for period 5 : 5

Enter timetable for Tuesday  
choose the subject from the list:  
1. math 2. chem 3. comp 4. bio 5. EC 6. irech 7. cheirlab

Enter subject for period & : 3

Enter subject for period 2 : 2

Enter subject for period 3 : &

Period 4 and 5 are reserved for special topics

Enter timetable for Wednesday  
choose the subject from the list:  
1. math 2. chem 3. comp 4. bio 5. EC 6. irech 7. cheirlab  
Enter subject for period & : 4  
Enter subject for period 2 : 7  
Enter subject for period 3 : 7

Enter timetable for Thursday  
choose the subject from the list:  
1. math 2. chem 3. comp 4. bio 5. EC 6. irech 7. cheirlab

Enter subject for period 1 : 2

Enter subject for period 2 : 3

Enter subject for period 3 : &

Enter subject for period 4 : 4

Enter subject for period 5 : 5

```

Enter subject for period 5:5

Enter timetable for Friday
Choose the subject from the list:
1.math 2.chem 3.comp 4.bio 5.EC 6.mech 7.chemlab

Enter subject for period 1:1

Enter subject for period 2:2

Enter subject for period 3:3

Enter subject for period 4:4

Enter subject for period 5:5

Enter timetable for Saturday
Choose the subject from the list:
1.math 2.chem 3.comp 4.bio 5.EC 6.mech 7.chemlab

Enter subject for period 1:6

Enter subject for period 2:6

Enter subject for period 3:1

Enter subject for period 4:2

Enter subject for period 5:4

C:\Users\Shreya\Desktop\lab1>

```

## TEXTFILE\_DISPLAY

| B.Tech Semester:2 |                           | SECTION : m               |                           | TIME TABLE                |                           |                           |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Day               | Period 1<br>08:00-09.00am | Period 2<br>09.00-10.00am | Period 3<br>10.00-11.00am | Interval<br>11.00-11.30am | Period 4<br>11.30-12.30pm | Period 5<br>12.30-01.00pm |
| Monday            | math                      | chem                      | comp                      | B                         | mech                      | EC                        |
| Tuesday           | comp                      | chem                      | math                      | R                         | Reserved                  | Reser                     |
| Wednesday         | bio                       | chemlab                   | chemlab                   | E                         |                           |                           |
| Thursday          | chem                      | comp                      | math                      | A                         | bio                       | EC                        |
| Friday            | math                      | chem                      | comp                      | K                         | bio                       | EC                        |
| Saturday          | mech                      | mech                      | math                      |                           | chem                      | bio                       |
| Subject           | Faculty                   |                           |                           |                           |                           |                           |
| math              | leela                     |                           |                           |                           |                           |                           |
| chem              | bmb                       |                           |                           |                           |                           |                           |
| comp              | vinay                     |                           |                           |                           |                           |                           |
| bio               | Jhinuk                    |                           |                           |                           |                           |                           |
| EC                | sumanth                   |                           |                           |                           |                           |                           |
| mech              | basavraj                  |                           |                           |                           |                           |                           |
| chemlab           | vbs                       |                           |                           |                           |                           |                           |