Chapter 1

INTRODUCTION

In a school or college, a timetable is a list that shows the times in the week at which subjects are taught. We can also refer to the classes that a teacher teaches as their timetable. Timetables are extremely important for a variety of reasons. They ensure that no teacher is scheduled for too many back-to-back classes or for 2 classes at the same time.

Data Search in Timetable project provides all the information about time table. It generates free-slots list of different section, subject name, faculty name & substitute according user's time & day. Timetabling concerns all activities about producing a schedule that must be subjective to different constraints. The main objective of this project is it manages the details of time, faculty, student-course, subject.

1.1 Motivation of project

"Data Search in Time Table" is a project which is developed to provide better support for lecturers and students in a college. With this application project, they can easily search the details of the class according to the timing given using time table which is an already existing. We are given the user the facility to enter the hour and day the it displays the subject and faculty name.

In this software one can easily search hours with subject, faculty name according to user time and day. And, we can search next hour details, substitutes, free slots and labs session. It provides details about branch and session. This application stands out among all other software in a way that is user- friendly and can be modified easily as per the requirements.

We can improve the efficiency of the system thus overcome the drawbacks of the existing system.

- Less human error
- Strength and strain of registers and papers can be reduced

- High security
- Data consistency
- Easy data updating

Achieving this objective is difficult using manual system as the information is scattered, can be collecting relevant information may be very time consuming. All these problems are solved by using this project.

1.2 Problem statement

"To design and implement the Searching of Data in already existing Class Time Table using C++"

Chapter 2

System Requirement Specification

Purpose: The purpose of the project is to maintain the timetable by searching the details of a class such as (subject name, faculty name, free slots) according to the user's time in already existing time table easily.

It may be chosen because it is thought to provide following advantages:

1.This software is space and time efficient.
2.There is a well-developed Document Management.
3.It is small and user friendly.
4.File Handling is effectively implemented.
5.Attractive design.

Scope: The application to finding a way to overcome the olden system of maintaining the timetable. Editing, adding records is improved and it is user-friendly. It is efficient, fast enough and reduce the large amount of material resources. This project is to build an application program to reduce the manual work for searching the data in Time Table.

2.1 Hardware System Configuration:

Processor	- Intel Core i5
Speed	- 1.8 GHz
RAM	- 256 MB (min)
Hard Disk	- 10 GB

2.2 Software System Configuration:

Operating System - windows 7/8.1/10

Programming Language - C

Compiler -Turbo C outcomes

Chapter 3

METHODOLOGY

3.1 Flowchart

A Flowchart is a type of diagram that represents an algorithm, process. It is diagrammatic representation of an algorithm.

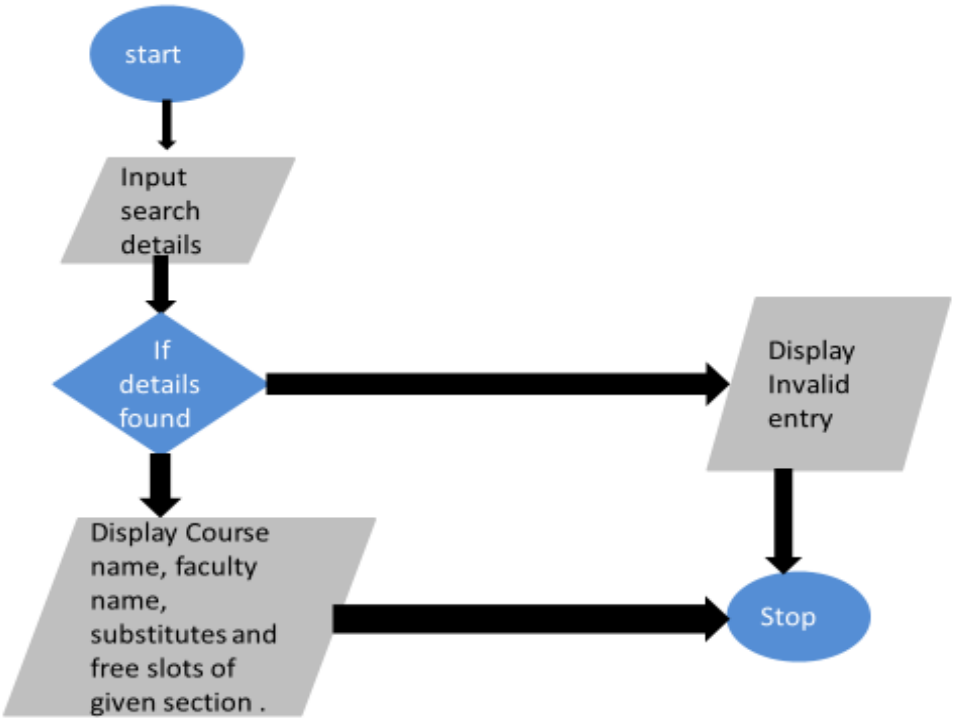

Fig 3.1) Flowchart for Data Search in Timetable

It asks to enter the inputs like Time and Day. If details found it displays the details of that time and day, else it stops.

3.2 Algorithm

Step1: Start

Start2: class secb

{

};//In class secb there is a declaration of function to initialization of section B timetable and to read the time and day to display the subject, faculty name, substitutes and free slots of whole week.

Step 3: class seca

{

};//In class seca there is a declaration of function to initialization of section A timetable and to read the time and day to display the subject, faculty name, substitutes and free slots of whole week.

Step 4: main function

- Declaration of objects for class secb and seca.
- Read the section.
- if the section is A call the function of class seca.
- else call the function of class secb.

Step 5: End

3.3 Code and Implementation

```
#include<iostream>

#include<string.h>

#include<ctime>

#include<cstring>

Using namespace std;

Class secb

{

Int Time[7];

Char Monday[ ], Tuesday[ ], Wednesday[ ], Thursday[ ], Friday[ ], Saturday[ ];

Public:

Void display ()

{

Int Time[7] = {9,10,11,12,2,3,4};

Char Monday[7][10] = {“oops”, “co”, “mp”, “co”, “maths”, “free”, “free”};

Char Tuesday[7][10] = {“maths”, “mp”, “co”, “oops”, “life skill”, “life skill”, “life skill”};

Char Wednesday[7][10] = {“lab”, “lab”, “lab”, “lab”, “tutorial”, “maths”, “free”};

Char Thursday[7][10] ={“mp”, “maths”, “oops”, “co”, “lab”, “lab”, “lab”};

Char Friday[7][10] = {“maths”, “mp”, “oops”, “free”, “free”, “free”,” free”};

Char Saturday[7][10] = {“maths”, “project”, “project”, “project”, “maths”, “project”, “project”, “project”};

Int time (int var1);
```

```
Int var1, var2, var3;

cout<<" enter the time" <<endl;

cin>>var1;

Char day[15];

If(var1==Time[0])

{

cout<<" enter the day" <<endl;

cin>>day;

var2=strlen(day);

If(strlen(day)==6)

{

if(day[1] =='o')

{

cout<<Monday[0]<<"-"<<"faculty is Prakruthi mam"<<"/"<<" substitute is Rafeega mam" <<endl;

cout<<"Next hour is"<<Monday[1]<<"-"<<"faculty is Shwetha mam"<<"/"<<"substitute is Subramanya sir"<<endl;

}

Else

{

Cout<<Friday[0] << "-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Prakruthi mam"<<endl;

Cout<<" Next hour is"<<Friday[1]<<"-"<<" faculty is Rafeega mam"<<"/"<<"substitute is Shwetha mam"<<endl;
```

```
}

}

if(strlen(day)==7)

{

Cout<<Tuesday[0]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Prakruthi mam"<<endl;

Cout<<"Next hour is"<<Tuesday[1]<<"-"<<faculty is Rafeega mam"<<"/"<<"substitute is Shwetha mam"<<endl;

}

If(strlen(day)==9)

{

Cout<<Wednesday[0]<<endl;

Cout<<"Next hour is"<<Wednesday[1]<<endl;

}

If(strlen(day)==8)

{

if(day[1] =='h')

{

cout<<Thursday[0]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Shwetha mam"<<endl;

cout<<"Next hour is"<<Thursday[1]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Rafeega mam"<<endl;

}

else
```

```
{
cout<<Saturday[0][<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Shwetha mam"<<endl;
cout<<"Next hour is"<<Saturday[1]<<endl;
}
}
}
if(var1==Time[1])
{
cout<<"enter the day"<<endl;
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
cout<<Monday[1]<<"-"<<"faculty is Shwetha mam"<<"/"<<" substitute is Subramanya sir" <<endl;
cout<<"Next hour is"<<Monday[2]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Prakruthi mam"<<endl;
}
else
{
```

```
cout<<Friday[1]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Shwetha mam"<<endl;

cout<<"Next hour is"<<Friday[2]<<"-"<<"faculty is Prakruthi mam"<<"/"<<"substitute is Rafeega mam"<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[1]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Shwetha mam"<<endl;

cout<<"Next hour is"<<Tuesday[2]<<"-"<<faculty is Shwetha mam"<<"/"<<"substitute is Subramanya sir"<<endl;

}

if(strlen(day)==9)

{

cout<<Wednesday[1]<<endl;

cout<<"Next hour is"<<Wednesday[2]<<endl;

}

if(strlen(day)==8)

{

if(day[1]=='h')

{

cout<<Thursday[1]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Rafeega mam"<<endl;
```

```
cout<<"Next hour is"<<Thursday[2]<<"-"<<"faculty is Prakruthi mam"<<"/"<<"substitute is Subramanya sir"<<endl;

}

else

{

cout<<Saturday[1][<<endl;

cout<<"Next hour is"<<Saturday[2]<<endl;

}

}

}

if(var1==Time[2])

{

cout<<"enter the day"<<endl;

cin>>day;

var2=strlen(day);

if(strlen(day)==6)

{

if(day[1]=='o')

{

cout<<Monday[2]<<"-"<<"faculty is Rafeega mam"<<"/"<<" substitute is Prakruthi mam" <<endl;

cout<<"Next hour is"<<Monday[3]<<"-"<<"faculty is Shwetha mam"<<"/"<<"substitute is Subramanya sir"<<endl;
```

```
}

else

{

cout<<Friday[2]<<"-"<<"faculty is Prakruthi mam"<<"/"<<"substitute is Rafeega mam"<<endl;

cout<<"Next hour is"<<Friday[3]<<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[2]<<"-"<<"faculty is Shwetha mam"<<"/"<<"substitute is Subramanya sir"<<endl;

cout<<"Next hour is"<<Tuesday[3]<<"-"<<"faculty is Prakruthi mam"<<"/"<<"substitute is Rafeega mam"<<endl;

}

if(strlen(day)==9)

{

cout<<Wednesday[2]<<endl;

cout<<"Next hour is"<<Wednesday[3]<<endl;

}

if(strlen(day)==8)

{

if(day[1]=='h')
```

```
{
cout<<Thursday[2]<<"-"<<"faculty is Prakruthi mam"<<"/"<<"substitute is Subramanya sir"<<endl;
cout<<"Next hour is"<<Thursday[3]<<"-"<<"faculty is Shwetha mam"<<"/"<<"substitute is Prakruthi mam"<<endl;
}
else
{
cout<<Saturday[2][<<endl;
cout<<"Next hour is"<<Saturday[3]<<endl;
}
}
}
if(var1==Time[3])
{
cout<<"enter the day"<<endl;
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
```

```
cout<<Monday[3]<<"-"<<"faculty is Shwetha mam"<<"/"<<" substitute is Subramanya sir" <<endl;

cout<<"Next hour is"<<Monday[4]<<"-"<<"faculty is Subramanya sir"<<"/"<<"Substitute is Prakruthi mam"<<endl;

}

else

{

cout<<Friday[3]<<endl;

cout<<" Next hour is" <<Friday[4]<<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[3]<<"-"<<"faculty is Prakruthi  mam"<<"/"<<"substitute is Rafeega mam"<<endl;

cout<<"Next hour is"<<Tuesday[4]<<"-"<<"faculty is Swathi mam"<<endl;

}

if(strlen(day)==9)

{

cout<<Wednesday[3]<<endl;

cout<<"Next hour is"<<Wednesday[4]<<endl;

}

if(strlen(day)==8)
```

```
{
if(day[1]=='h')
{
cout<<Thursday[3]<<"-"<<"faculty is Shwetha mam"<<"/"<<"substitute is Prakruthi mam"<<endl;
cout<<"Next hour is"<<Thursday[4]<<endl;
}
else
{
cout<<Saturday[3][<<endl;
cout<<"Next hour is"<<Saturday[4]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Prakruthi mam"<<endl;
}
}
}
if(var1==Time[4])
{
cout<<"enter the day"<<endl;
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
```

```
{
cout<<Monday[4]<<"-"<<"faculty is Subramanya sir"<<"/"<<" substitute is Prakruthi mam" <<endl;
cout<<"Next hour is"<<Monday[5]<<endl;
}
else
{
cout<<Friday[4]<<endl;
cout<<" Next hour is" <<Friday[5]<<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[4]<<"-"<<"faculty is Swathi mam"<<endl;
cout<<"Next hour is"<<Tuesday[5]<<"-"<<"faculty is Swathi mam"<<endl;
}
if(strlen(day)==9)
{
cout<<Wednesday[4]<<endl;
cout<<"Next hour is"<<Wednesday[5]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Shwetha mam"<<endl;
}
if(strlen(day)==8)
```

```
{
if(day[1]=='h')
{
cout<<Thursday[4]<<"-"<<"faculty is Shwetha mam"<<endl;
cout<<"Next hour is"<<Thursday[5]<<endl;
}
else
{
cout<<Saturday[4] ]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Prakruthi mam"<<endl;
cout<<"Next hour is"<<Saturday[5]<<endl;
}
}
}
if(var1==Time[5])
{
cout<<"enter the day"<<endl;
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
```

```
cout<<Monday[5]<<endl;

cout<<"Next hour is"<<Monday[6]<<endl;

}

else

{

cout<<Friday[5]<<endl;

cout<<" Next hour is" <<Friday[6]<<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[5]<<"-"<<"faculty is Swathi mam"<<endl;

cout<<"Next hour is"<<Tuesday[6]<<"-"<<"faculty is Swathi mam"<<endl;

}

if(strlen(day)==9)

{

cout<<Wednesday[5]<<"-"<<"faculty is Subramanya sir"<<"/"<<"substitute is Shwetha mam"<<endl;

cout<<"Next hour is"<<Wednesday[6]<<endl;

}

if(strlen(day)==8)

{

if(day[1]=='h')
```

```
cout{
cout<<Thursday[5]<<endl;
cout<<"Next hour is"<<Thursday[6]<<endl;
}
else
{
cout<<Saturday[5] <<endl;
cout<<"Next hour is"<<Saturday[6]<<endl;
}
}
}
if(var1==Time[6])
{
cout<<"enter the day"<<endl;
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
<<Monday[6]<<endl;
}
```

```
else
{
cout<<Friday[6]<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[6]<<"-"<<"faculty is Swathi mam"<<endl;
}
if(strlen(day)==9)
{
cout<<Wednesday[6]<<endl;
}
if(strlen(day)==8)
{
if(day[1]=='h')
{
cout<<Thursday[6]<<"-"<<"faculty is Shwetha mam"<<endl;
}
else
{
cout<<Saturday[6] <<endl;
```

```
}
}
}
void freeb( )
{
cout<<"\nday"<<"                    "<<"Time"<<endl;
cout<<"* Monday"<<"              "<<"at 3pm and 4pm"<<endl;
cout<<"* Wednesday"<<"          "<<"at 4pm"<<endl;
cout<<"* Friday"<<"               "<<"at 2pm, 3pm, and 4pm"<<endl;
}
};
class seca( )
{
{
int Time[7];
char Monday[ ], Tuesday[ ], Wednesday[ ], Thursday[ ], Friday[ ], Saturday[ ];
public:
void display( )
{
int Time[7]={9,10,11,12,2,3,4};
char Monday[7][10]={"life skill", "life skill", "life skill", "oops", "lab", "lab", "lab"};
char Tuesday[7][10]={"maths", "co", "oops", "mp", "maths", "free", "free"};
```

```
char Wednesday[7][10]={“oops”, “mp”, “co”, “maths”, ”tutorial”, ”library”, “free”};

char Thursday[7][10]={“oops”, “mp”, “maths”, “mp”, “project”, “project”, “project”};

char Friday[7][10]={“lab”, “lab”, “lab”, “lab”, “maths”, “project”,” project”};

char Saturday[7][10]={“mp”, “co”, “maths”, “mentoring”, “mp”, “maths”, “co”};

int time(int var1);

int var1, var2, var3;

cout<<”enter the time”<<endl;

cin>>var1;

char day[15];

if(var1==Time[0])

{

cout<<”enter the day”<<endl;

cin>>day;

var2=strlen(day);

if(strlen(day)==6)

{

if(day[1]==’o’)

{

cout<<Monday[0]<<”-“<<”faculty is Sunitha mam”<<endl;

cout<<”Next hour is”<<Monday[1]<<endl;

}

else
```

```
{
cout<<Friday[0]<<endl;
cout<<"Next hour is"<<Friday[1]<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[0]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Swathi mam"<<endl;
cout<<"Next hour is"<<Tuesday[1]<<"-"<<faculty is Vikas sir"<<"/"<<"substitute is Kavitha mam"<<endl;
}
if(strlen(day)==9)
{
cout<<Wednesday[0]<<"-"<<"faculty is Swathi mam"<<"/"<<"substitute is Rafeega mam"<<endl;
cout<<"Next hour is"<<Wednesday[1]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Kavitha mam"<<endl;
}
if(strlen(day)==8)
{
if(day[1]=='h')
{
```

```
cout<<Thursday[0]<<"-"<<"faculty is Swathi mam"<<"/"<<"substitute is Vikas sir"<<endl;

cout<<"Next hour is"<<Thursday[1]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Vikas sir"<<endl;

}

else

{

cout<<Saturday[0]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Swathi mam"<<endl;

cout<<"Next hour is"<<Saturday[1]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Kavitha mam"<<endl;

}

}

}

if(var1==Time[1])

{

cout<<"enter the day"<<endl;

cin>>day;

var2=strlen(day);

if(strlen(day)==6)

{

if(day[1]=='o')

{

cout<<Monday[1]<<"-"<<"faculty is Sunitha mam"<<endl;
```

```
cout<<"Next hour is"<<Monday[2]<<endl;

}

else

{

cout<<Friday[1]<<endl;

cout<<"Next hour is"<<Friday[2]<<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[1]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Kavitha mam"<<endl;

cout<<"Next hour is"<<Tuesday[2]<<"-"<<faculty is Swathi mam"<<"/"<<"substitute is Rafeega mam"<<endl;

}

if(strlen(day)==9)

{

cout<<Wednesday[1]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Kavitha mam"<<endl;

cout<<"Next hour is"<<Wednesday[2]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Swathi mam"<<endl;

}

if(strlen(day)==8)

{
```

```
if(day[1]=='h')

{

cout<<Thursday[1]<<"-"<<"faculty is rafeega mam"<<"/"<<"substitute is Vikas sir"<<endl;

cout<<"Next hour is"<<Thursday[2]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Swathi mam"<<endl;

}

else

{

cout<<Saturday[1]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Kavitha mam"<<endl;

cout<<"Next hour is"<<Saturday[2]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;

}

}

}

if(var1==Time[2])

{

cout<<"enter the day"<<endl;

cin>>day;

var2=strlen(day);

if(strlen(day)==6)

{

if(day[1]=='o')
```

```
{
cout<<Monday[2]<<"-"<<"faculty is Sunitha mam"<<endl;
cout<<"Next hour is"<<Monday[3]<<"-"<<"faculty is Swathi mam"<<"/"<<"substitute is Kavitha mam"<<endl;
}
else
{
cout<<Friday[2]<<endl;
cout<<"Next hour is"<<Friday[3]<<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[2]<<"-"<<"faculty is Swathi mam"<<"/"<<"substitute is Rafeega mam"<<endl;
cout<<"Next hour is"<<Tuesday[3]<<"-"<<faculty is Rafeega mam"<<"/"<<"substitute is Vikas sir"<<endl;
}
if(strlen(day)==9)
{
cout<<Wednesday[2]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Swathi mam"<<endl;
cout<<"Next hour is"<<Wednesday[3]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;
```

```
}

if(strlen(day)==8)

{

if(day[1]==’h’)

{

cout<<Thursday[2]<<”-“<<”faculty is Kavitha mam”<<”/”<<”substitute is Swathi mam”<<endl;

cout<<”Next hour is”<<Thursday[3]<<”-“<<”faculty is Rafeega mam”<<”/”<<”substitute is Kavitha mam”<<endl;

}

else

{

cout<<Saturday[2]<<”-“<<”faculty is Kavitha mam”<<”/”<<”substitute is Vikas sir”<<endl;

cout<<”Next hour is”<<Saturday[3]<<endl;

}

}

}

if(var1==Time[3])

{

cout<<”enter the day”<<endl;

cin>>day;

var2=strlen(day);
```

```
if(strlen(day)==6)

{

if(day[1]=='o')

{

cout<<Monday[3]<<"-"<<"faculty is Swathi mam"<<endl;

cout<<"Next hour is"<<Monday[4]<<endl;

}

else

{

cout<<Friday[3]<<endl;

cout<<"Next hour is"<<Friday[4]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Rafeega mam"<<endl;

}

}

if(strlen(day)==7)

{

cout<<Tuesday[3]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Vikas sir"<<endl;

cout<<"Next hour is"<<Tuesday[4]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;

}

if(strlen(day)==9)

{
```

```
cout<<Wednesday[3]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;

cout<<"Next hour is"<<Wednesday[4]<<endl;

}

if(strlen(day)==8)

{

if(day[1]=='h')

{

cout<<Thursday[3]<<"-"<<"faculty is rafeega mam"<<"/"<<"substitute is Kavitha mam"<<endl;

cout<<"Next hour is"<<Thursday[4]<<endl;

}

else

{

cout<<Saturday[3]<<endl;

cout<<"Next hour is"<<Saturday[4]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Swathi mam"<<endl;

}

}

}

if(var1==Time[4])

{

cout<<"enter the day"<<endl;
```

```
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
cout<<Monday[4]<<endl;
cout<<"Next hour is"<<Monday[5]<<endl;
}
else
{
cout<<Friday[4]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Rafeega mam"<<endl;
cout<<"Next hour is"<<Friday[5]<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[4]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;
cout<<"Next hour is"<<Tuesday[5]<<endl;
}
if(strlen(day)==9)
```

```
{
cout<<Wednesday[4]<<endl;
cout<<"Next hour is"<<Wednesday[5]<<endl;
}
if(strlen(day)==8)
{
if(day[1]=='h')
{
cout<<Thursday[4]<<endl;
cout<<"Next hour is"<<Thursday[5]<<endl;
}
else
{
cout<<Saturday[4]<<"-"<<"faculty is Rafeega mam"<<"/"<<"substitute is Swathi mam"<<endl;
cout<<"Next hour is"<<Saturday[5]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is  Vikas sir"<<endl;
}
}
}
if(var1==Time[5])
{
cout<<"enter the day"<<endl;
```

```
cin>>day;
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
cout<<Monday[5]<<endl;
cout<<"Next hour is"<<Monday[6]<<endl;
}
else
{
cout<<Friday[5]<<endl;
cout<<"Next hour is"<<Friday[6]<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[5]<<endl;
cout<<"Next hour is"<<Tuesday[6]<<endl;
}
if(strlen(day)==9)
{
```

```
cout<<Wednesday[5]<<endl;

cout<<"Next hour is"<<Wednesday[6]<<endl;

}

if(strlen(day)==8)

{

if(day[1]=='h')

{

cout<<Thursday[5]<<endl;

cout<<"Next hour is"<<Thursday[6]<<endl;

}

else

{

cout<<Saturday[5]<<"-"<<"faculty is Kavitha mam"<<"/"<<"substitute is Vikas sir"<<endl;

cout<<"Next hour is"<<Saturday[6]<<"-"<<"faculty is Vikas sir"<<"/"<<"substitute is Kavitha mam"<<endl;

}

}

}

if(var1==Time[6])

{

cout<<"enter the day"<<endl;

cin>>day;
```

```
var2=strlen(day);
if(strlen(day)==6)
{
if(day[1]=='o')
{
cout<<Monday[6]<<endl;
}
else
{
cout<<Friday[6]<<endl;
}
}
if(strlen(day)==7)
{
cout<<Tuesday[6]<<endl;
}
if(strlen(day)==9)
{
cout<<Wednesday[6]<<endl;
}
if(strlen(day)==8)
{
```

```
if(day[1]==’h’)
{
cout<<Thursday[6]<<endl;
}
else
{
cout<<Saturday[6] <<”-“<<”faculty is Vikas sir”<<”/”<<”substitute is Kavitha mam”<<endl;
}
}
}
void freea( )
{
{
cout<<”\nday”<<”  “<<”Time”<<endl;
cout<<”* Tuesday”<<”  “<<”at 3pm and 4pm”<<endl;
cout<<”* Wednesday”<<”  “<<”at 4pm”<<endl;
}
};
int main( )
{
secb ob1;
seca ob2;
```

```
char sec;
cout<<"enter the section"<<endl;
cin>>sec;
if(sec=='B')
{
cout<<"Room no. r is 519"<<endl;
ob1.displayb();
cout<<"\nfree hours of section B"<<endl;
ob1.freeb( );
}
else
{
cout<<"Room no. r is 506"<<endl;
ob2.displaya();
cout<<"free hours of section A"<<endl;
ob2.freea( );
}
return 0;
}
```

Chapter 4

RESULTS AND DISCUSSION

4.1 Output (Snapshots)

```
[root@localhost ~]# vi pgm4.cpp
[root@localhost ~]# c++ pgm4.cpp
[root@localhost ~]# ./a.out
enter the section
B
Room no,r is 519
enter the time
9
enter the day
monday
oops-faculty is prakruthi mam/substitute is rafeega mam
Next hour isco-faculty is shwetha mam/substitute is subramanya sir

free hours of section B

day         Time
* monday     at 3pm and 4pm
* wednesday  at 4pm
* friday     at 2pm,3pm,and 4pm
You have new mail in /var/spool/mail/root
[root@localhost ~]#
```

Fig 4.1) Output snapshot 1: Ask to enter the section.

Then entering the time and day of that section. It displays the details of the class like course name, faculty name, substitutes and free slots of that section.

```
[root@localhost ~]# c++ pgm4.cpp
[root@localhost ~]# ./a.out
enter the section
A
Room no,r is 506
enter the time
2
enter the daythursday
project
project
free hours of section A
day         Time
* tuesday   at 3pm and 4pm
* wednesday at 4pm
[root@localhost ~]#
```

Fig 4.2) Output snapshot 2: Ask to enter the section.

Then entering the time and day of that section. It displays the details of the class like course name, faculty name, substitutes and free slots of that section.

```
[root@localhost ~]# c++ pgm4.cpp
[root@localhost ~]# ./a.out
enter the section
B
Room no,r is 519
enter the time
11
enter the dayfriday
oops-faculty is prakruthi mam/substitute is rafeega mam
Next hour isfree
free hours of section B

day         Time
* monday     at 3pm and 4pm
* wednesday  at 4pm
* friday     at 2pm,3pm,and 4pm
[root@localhost ~]#
```

Fig 4.3) Output snapshot 3: Ask to enter the section.

Then entering the time and day of that section. It displays the details of the class like course name, faculty name, substitutes and free slots of that section.

```
[root@localhost ~]# c++ pgm4.cpp
[root@localhost ~]# ./a.out
enter the section
B
Room no,r is 519
enter the time
3
enter the daywednesday
maths-faculty is subramanya sir/substitute is shwetha mam
Next hour isfree

free hours of section B

day         Time
* monday     at 3pm and 4pm
* wednesday  at 4pm
* friday     at 2pm,3pm,and 4pm
[root@localhost ~]#
```

Fig 4.4) Output snapshot 4: Ask to enter the section.

Then entering the time and day of that section. It displays the details of the class like course name, faculty name, substitutes and free slots of that section.

CONCLUSION AND FUTURE ENHANCEMENT

This application-project reduces the manual work, maintaining accuracy, increasing efficiency and saving time.

For Faculty, it saves time to search hour with course, faculty name and substitutes. By using this project can view their results then and there. It manages the data of the student courses, subject efficiently. Integration of all course of record is achieved.

References

[1]. http://www.cplusplus.com

[2].www.slideshare.net

[3]. www.Beginnersbook.com

[4]. www.geeksforgeeks.org

[5]. “Cracking the Coding Interview: 189 Programming Questions and Solutions” by Gayle Laakmann McDowell.