

Objectives :

At the end of this class the students will be able to

- Create a sequential access file to store and retrieve data.
- Store data into a sequential file.
- Retrieve data from a sequential file.

Exercise 1

A university needs to maintain a text file to store and retrieve their student's details such as name, class, year and total marks.

1. Write a C program to do the following;

a) Create a file pointer

```
FILE *fPtr;
```

b) Open the file to write data

```
fPtr = fopen ( "Student.dat", "w");
```

c) Input the data of 5 students from the keyboard and store in the file. Write the data to the file using

```
fprintf(fPtr, "%s %c %d %d \n", name, class, year, GPA);
```

d) Modify the program to open the "Student.dat" file you created above and print the data in a tabular form as shown below in the screen.

Name	Class	Year	GPA
Nimal	1	1	3.7
Sunil	1	2	4.0
Kamal	3	3	2.7
Mihiri	2	1	1.7
Mala	2	4	2.1

Exercise 2

Write another program to read the "Student.dat" file and display name and GPA of the students in a given year. The user should be able to input the year from the keyboard.