Our project is about student exam management system. The main objective of the system is to check the eligibility status of students to allow them to write the final exams.

Our Goal is to modify the existing manual storage of the records of students which will reduce lot of human energy and using computer knowledge to make things smoother and faster simultaneously.

**Existing System**

The existing system is the old hand, manual written which will have much error

Disadvantages:-

* It contains much error because of manual entries.
* It takes much time to store and collect the data as we need to write manually every record.
* Even though we write the data it is difficult to preserve the data as it needs many shelves to keep the files and fire accidents can destroy every record as we saw many cases like that which destroyed many records.
* Records can be manipulated if it is written manually, etc.

**Proposed System**

The proposed system is written in C language which is easy and efficient to understand by the user. It is much error free than the manual hand written record.

Advantages: -

* It is easy to write the code.
* It is error free.
* It takes less time and is more efficient to use the proposed system.
* It can store more records than the existing one within less time.
* It is easy to store the data in this system.
* Accuracy to work and easy to update information

**Hardware and Software Requirement Specifications**

1. Hardware Requirement

* Processor : Windows 10
* RAM: 6gb Ram or Above
* Hard Disk : 256GB HDD or Above

1. Software Requirement

* Tools : DEV-C++
* Language: C language

In our code we tried to create a software which takes the inputs as student’s details, paid status, attendance status and checks the student is eligible or not on the criteria we specified.

The criteria we specified are that a student is only eligible to give the final exams if and only if his fee payment status is ‘P’ and the percentage of attendance is more than 65%.

We get the status of fee payment when the fees is fully paid ‘P’ and for rest of the cases it is ‘F’. similarly we get the status of result – ‘PASS’ if the student gets greater than or equal to 50% in all the subjects , else the student gets ‘FAIL’ as result. The status of attendance is also achieved by giving number of days present by the student. if the percentage is greater than or equal to 65%, the student is allowed to take the exam.

In the source code the total work is divided into 6 functions.

The functions are:

1. Get student data.
2. Display student data.
3. Check the eligibility of student data.
4. Accept the marks.
5. Display the result.
6. Exit.

The functionalities of defined functions:

1. Get student data :

Firstly, here we have to specify the strength of the class. So, that the software reads the data of the entire class accordingly. We need to give hall ticket number, student name, student address, student class, student fees status ‘P’ for paid and ‘N’ for rest of the cases and the number of days present for each student in the class.

1. Display student data :

In the display student data function, student hall ticket number, student name, student address, student class, student fees status ‘P’ for paid and ‘N’ for rest of the cases and the number of days present are displayed.

1. Check eligibility :

In this function the student’s details hall ticket number, student name, class, attendance percentage, fees status, eligibility are displayed. Percentage for attendance is given as (student’s number of days present/number of working days)\*100. If percentage is greater than or equal to 65 and students fee status is P. the student will be eligible to proceed further with the process else the student will be declared not eligible.

1. Accept marks :

The marks are only taken for the students who are declared to be eligible. The marks are to be given for five subjects out of 100 for each.

1. Display the result :

Result is displayed for the students who were declared as eligible only. The students gets ‘PASS’ if he gets greater than or equal to 50 marks in all subjects else the student gets ‘FAIL’.

1. Exit :

Entering 6 will exit the code.

We used c language to do this project since it contains all the commands required for execution of program. In c language we used the concepts of loops, strings, structures and functions. The libraries we used are standard library, conio.h, string.h, stdlib.h.