Assignment no-10

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Problem statement - Department maintains student, information. The file contains roll no, name, div and address Allows user to add, delete, search student data. It record does not exist, print particular message. Use sequential file for implementing file handling.

Objective - To study and implement file handling operations.

Outome - studied and implemented file handling operations using sequential file

5/W and HIW requirements - Dell Optiplex 3020 M7, keyboon
Monitor, Fedora 2D, Eclipso

Theory - File is a stream of bytes size of file is expressed in number of bytes

Sequential file-

In this file, records are added in order of length of record is not fixed search is time consuming Insertion, deletion is time consuming fundom file-

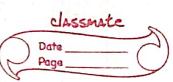
We can read/write a particular word without having read permission records, we can position file parter to a particular location



```
Algorithm
o write to file
        write (int roll, char name, int div)
             student s = new (vall, name, div);
             file.seekp (o, jos :: end);
             file. write ((char + ls, size of G));
1 Display
           display ()
               file seekg (o, ios: beg);
               able (file read (chart) 49, size of(s));
                § s.displaydata();3
3 Delete
            void delete (int roll)
               ofstream newfile (new.txt/, ios::bin)
                file seekg co, ios: beg);
                bool flag = false;
                students;
                while (not end of file)
                     if (s.roll = = roll) then
                       £ flag = true;
                      continue:
```

Scanned with CamScanner

```
newfile write ((choi+) &s, sizeof(s));
       if (flag)
         print "Record not found";
        file.close();
        remove ("student txt");
        rename ("new.txt", "student txt").
        file.open ("student.txt", ios ::bin);
search
         void search (int roll)
          ? student s;
             file seekg (o, ios::beg);
             while (file has not ended) do
              [ if (s.roll = = roll) then
                 sidisplay datacs;
                 break;
```



	Test cases
	pescription Expected Actual Result
	Name-ahc, aa, bc 22 aa 3 expected
	Div:-2,3,1 33 bc 1
_(search: 22 22 00 3. same Pass
6	Delete: 22 1 abc 2 same as Pass 33 bc 1 expected
	condusion. We have successfully implemented file handling operations using sequential file.
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