

P. (13, 45)

## Assignment 7

Class-SEIV ROLL NO-21430

Batch-+4

DOP-16/10/2020 DOS-22/10/2020

Problem statement:

writes information to it, closes the file, openit again as an input file and served the information from the file.

Learning objectives the most of most on

to learn the concept of file handling 4 strings in c++ programming.

To apply file handling on class and objects.

Learning Outcomes:

to learn the concept of

Will be able to design a program in ctt using concept of file handling and strings.

Theory -;

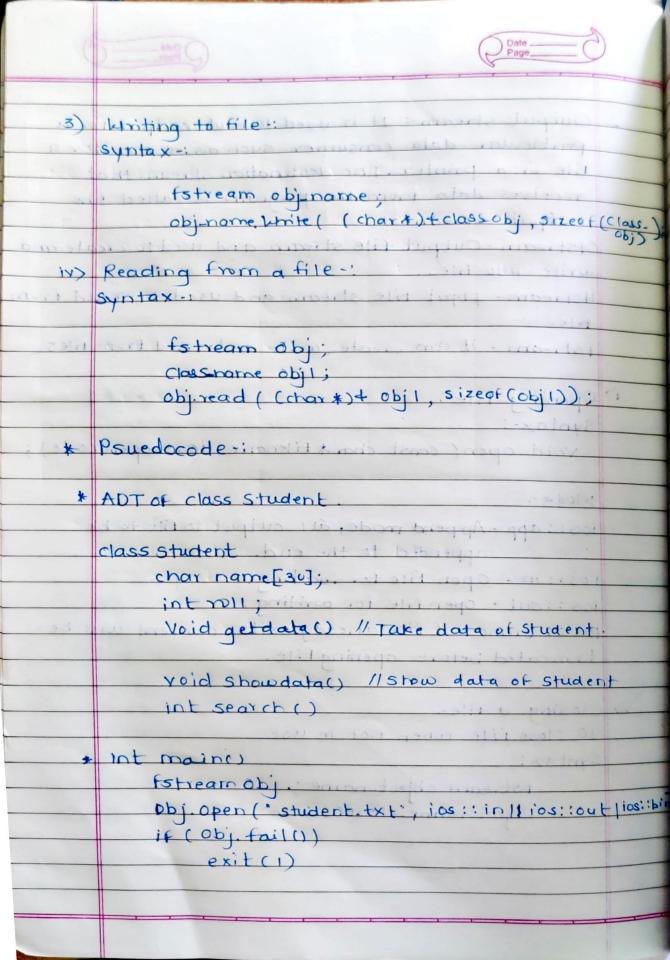
Stream. A stream is a sequence of bytes. It acts as a source from which the input data can be obtained or as a destination to which the G/P data can be sent.

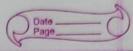
I. Input stream. It is used to had input from a data producer, such as a keyboard, a file or a network. The source stream that provides data to the program is called the input stream.



2. Output stream: It is used to hold output for a particular data consumer such as a monitor a file or a printer. The destination stream that receives data from the program is called the output stream. Ofstream - Output file stream and used to create and write into files. ifstream. That file stream and used to read from Ble. Estream - it can create write and read from files. i) Opening Hije: I do to the minds Syntax-: Void open (const char \* filename; los: openmode); Mode -: ios: app. Append mode, all output to file to be appended to the end. to the end. ios: in - Open file for reading ios: : out - open file for writing . ios: trunc - if file already exits, content will be truncated before opening file. 2) Closing a file-: To close file when not in use. Syntax: fstream object-name;

Object-name.closecs;





```
While (1)
  read choice
  if choice == y'
   .. red rad student data
 1 Het break, 102 Maison
Display 1. Show
         2 search
         3. Fxit. 25-12
Read choice.
 Switch (choice): MA MAN
    11 case (1):1103 == 1109
         obj seekg (0, lossibeg)
          While ( Obj. FOF == 1)
             Obj. read ( (char*)$ s, sizeof(s))
             s. showdata ();
case (2)
         Read number to be search
          if (5. search (number)
            S. Showdata();
     (ase (3):
         Exit(1)
```



Test cases:

			The second	13 1-	
No.	Description	Input	Expected output	netual 0./p	Resulf.
1.	1.Show 2. Search 3. Exit.	Name: ABC ROII-72 ch = 2. SY - 25	ROLL NO.	Roll no.	Pas
2.		Nome: ABC ROII - 52 Ch = 1	Name : ABC R011-52	Name-A&C Roll-52	Pass
*	Conclusion:				

we learnt to implement file handling with class and object.

Signal datal.

: 41-

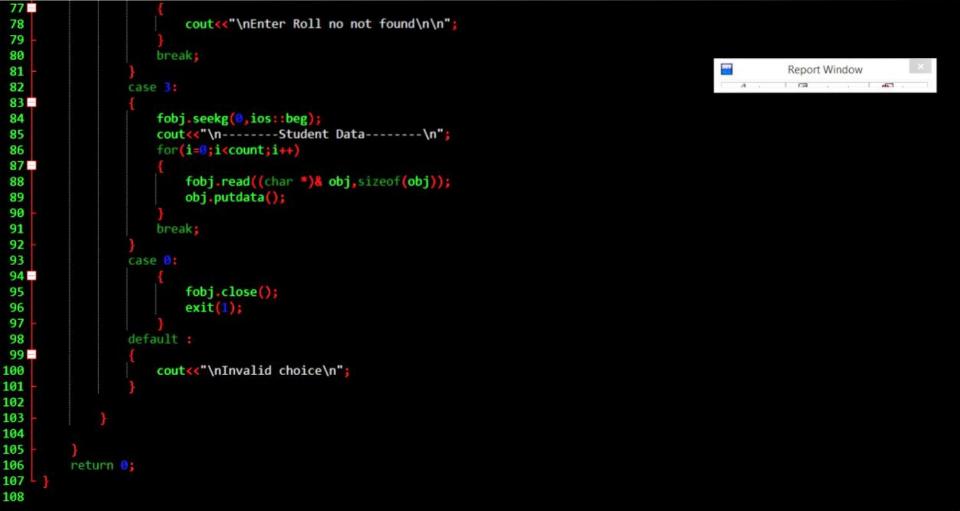
10

Paire

```
#include<stdio.h>
     #include<fstream>
    #include<iostream>
     using namespace std;
                                                                                                               Report Window
     class Student
 6
         public:
             char name [20];
 9
             int roll;
10
             void getdata()
11
12
                 cout<<"\nEnter name : ";
                 cin.getline(name, 18);
13
                 cout<<"\nEnter roll : ";</pre>
14
15
                 cin>>roll;
16
                 cin.ignore(1);
17
18
             void putdata()
19
20
                 cout<<"Name : "<<name<<"\nRoll : "<<roll<<endl;</pre>
21
22
     int main()
24
25
         fstream fobj
         fobj.open("myfile.txt",ios::in ios::out ios::binary);
26
         Student obj;
27
28
         int i count=0 choice:
29
         char ch:
30
         while(1)
31
32
             cout<<"\n!!!!Enter Choice!!!!\n\n";
```

```
33
             cout << "\nEnter 1 to add Data";
34
             cout << "\nENter 2 to find Data";
35
             cout<<"\nEnter 3 to show all data";
36
             cout << "\nEnter 0 to exit";
37
                                                                                                                Report Window
             cout<<"\n\nChoice : ";</pre>
38
             cin>>choice;
             cin.ignore(1);
40
             switch(choice)
41
42
43 -
                     while(1)
44
45
46
                         count++:
47
                         obj.getdata();
48
                         fobj.write((char *)&obj,sizeof(obj));
                         cout << "\nEnter y to continue or n \n";
                         cin>>ch:
51
                         cin.ignore(1);
52
                         if(ch!='y')
53
54
                             break:
55
56
57
                     break:
58
59
60
61
                     int num=0;
62
                     fobj.seekg(0,ios::beg);
63
                     cout << "\nEnter Roll No Student to show data : ";
64
                     cin>>choice;
```

```
62
                    fobj.seekg(0,ios::beg)
63
                    cout<<"\nEnter Roll No Student to show data : ";
64
                    cin>>choice:
65
                    while(fobj.eof()==0)
                                                                                                         Report Window
66
                        fobj.read((char *)& obj,sizeof(obj));
67
                                                                                                   A . 1 G . . 1 4G .
68
                        if(obj.roll=choice)
69
70
                           num++;
71
                           obj.putdata();
                           break:
73
75
76
                    if(num==0)
77
78
                        cout<<"\nEnter Roll no not found\n\n";</pre>
79
                    break:
80
81
82
                case 3:
83 -
84
                    fobj.seekg(0,ios::beg);
                    cout<<"\n-----\n";
85
86
                    for(i=0;i<count;i++)
87
                        fobj.read((char *)& obj,sizeof(obj));
88
                        obj.putdata();
89
90
                    break;
91
93
                case 0:
```



```
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 1
Enter name : ganesh
Enter roll : 30
Enter y to continue or n
Enter name : amit
Enter roll: 45
Enter y to continue or n
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 2
Enter Roll No Student to show data : 30
Name : ganesh
Roll : 30
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 2
Enter Roll No Student to show data : 2
Enter Roll no not found
!!!!Enter Choice!!!!
```

```
Enter roll : 30
Enter y to continue or n
Enter name : amit
Enter roll: 45
Enter y to continue or n
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 2
Enter Roll No Student to show data : 30
Name : ganesh
Roll : 30
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 2
Enter Roll No Student to show data : 2
Enter Roll no not found
!!!!Enter Choice!!!!
Enter 1 to add Data
ENter 2 to find Data
Enter 3 to show all data
Enter 0 to exit
Choice : 3
 ----Student Data----
Name : amit
Roll : 45
```