

File Edit Selection View Go Run Terminal Help p.cpp - FS\_LAB - Visual Studio Code

EXPLORER

OPEN EDITORS

FS\_LAB

- .vscode
- lab\_1
- lab\_5
  - a.exe
  - index.txt
  - p.cpp
  - p.exe
  - rec.txt
  - tempCodeRunnerFil...
- lab2
- lab3
- lab4

OUTLINE

TIMELINE

lab\_5 > C++ p.cpp > stud::del()

```
1  #include <iostream>
2  #include <fstream>
3  #include <string.h>
4  #include <stdio.h>
5  #include <stdlib.h>
6  using namespace std;
7  char index[100][50], indexadd[100][50];
8  int nor;
9  void smi()
10 {
11     char temp[100], temp1[100];
12     for (int i = 0; i < nor; i++)
13     {
14         for (int j = i + 1; j < nor; j++)
15         {
16             if (strcmp(index[i], index[j]) > 0)
17             {
18                 strcpy(temp, index[i]);
19                 strcmp(index[i], index[j]);
20                 strcmp(index[j], temp);
21                 strcmp(temp1, indexadd[i]);
22                 strcmp(indexadd[i], indexadd[j]);
23                 strcmp(indexadd[j], temp1);
24             }
25         }
26     }
27 }
28 class stud
29 {
30 public:
```

lab\_5 > C++ p.cpp > ...

```
31     char usn[10], name[30], brn[30], sem[10];
32     void unpack(int);
33     void add();
34     void del();
35     void search();
36     void disp();
37 };
38 void stud::add()
39 {
40     char buf[100], sadd[50];
41     cout << "\n enter usn,name,branch,and sem:\n";
42     cin >> usn >> name >> brn >> sem;
43     for (int i = 0; i < nor; i++)
44     {
45         if (strcmp(usn, index[i]) == 0)
46         {
47             cout << "\nduplicate entry\n";
48             return;
49         }
50     }
51     strcpy(buf, usn);
52     strcat(buf, "|");
53     strcat(buf, name);
54     strcat(buf, "|");
55     strcat(buf, brn);
56     strcat(buf, "|");
57     strcat(buf, sem);
58     strcat(buf, "|");
59     fstream f1("index.txt", ios::app);
60     fstream f2("rec.txt", ios::app);
```

Ln 187, Col 1 Spaces: 4 UTF-8 CRLF C++ Win32

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OUTLINE

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```

lab_5 > C++ p.cpp > stud::del()
121      cout << "record deleted\n";
122      for (int i = mid; i < nor; i++)
123      {
124          strcpy(index[i], index[i + 1]);
125          strcpy(indexadd[i], indexadd[i + 1]);
126      }
127      nor--;
128  }
129  else if (strcmp(usn, index[mid]) > 0)
130      min = mid + 1;
131  else
132      max = mid - 1;
133  }
134  for (int i = 0; i < nor; i++)
135  {
136      f1.write(index[i], strlen(index[i]));
137      f1.write("|", 1);
138      f1.write(indexadd[i], strlen(indexadd[i]));
139      f1.write("|\\n", 2);
140  }
141  f1.close();
142  if (!flag)
143      cout << "\\ndeletion failed\\n";
144  }
145  void stud::disp()
146  {
147      stud s;
148      int add;
149      cout << "usn\\tname\\tbranch\\tsem\\n";
150      for (int i = 0; i < nor; i++)
151      {

```

```

lab_5 > C++ p.cpp > ...
153      s.unpack(add);
154      cout << s.usn << "\\t" << s.name << "\\t" << s.
155  }
156  }
157  int main()
158  {
159      stud s;
160      int ch;
161      cout << "1 add\\n2 search\\n3 delete\\n4 display\\n5
162  do
163  {
164      cout << "enter your choice:";
165      cin >> ch;
166      switch (ch)
167      {
168      case 1:
169          s.add();
170          break;
171      case 2:
172          s.search();
173          break;
174      case 3:
175          s.del();
176          break;
177      case 4:
178          s.disp();
179          break;
180          // case 5:
181          //      remove("index.txt");
182          //      remove("rec.txt");

```

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```

lab_5 > C++ p.cpp > stud::del()
62     strcpy(index[nor], usn);
63     itoa(f2.tellp(), sadd, 10);
64     strcpy(indexadd[nor], sadd);
65     f1 << usn << '|' << f2.tellp() << '\n';
66     f2 << buf;
67     nor++;
68     smi();
69     f1.close();
70     f2.close();
71
72     oid stud::search()
73
74     char usn[10];
75     stud s;
76     cout << "\nenter usn for search:";
77     cin >> usn;
78     int max = nor - 1, min = 0, flag = 0, add, mid;
79     while (min <= max && flag == 0)
80     {
81         mid = (min + max) / 2;
82         if (strcmp(usn, index[mid]) == 0)
83         {
84             flag = 1;
85             add = atoi(indexadd[mid]);
86             s.unpack(add);
87             cout << "record found\n";
88             cout << "usn:" << s.usn << "\tname:" << s.
89         }
90         else if (strcmp(usn, index[mid]) > 0)
91             min = mid + 1;
92     else
    
```

```

lab_5 > C++ p.cpp > ...
94     }
95     if (!flag)
96         cout << "\nsearch failed!!\n";
97 }
98 void stud::unpack(int add)
99 {
100     fstream f1("rec.txt", ios::in);
101     f1.seekg(add);
102     f1.getline(usn, 10, '|');
103     f1.getline(name, 30, '|');
104     f1.getline(brn, 30, '|');
105     f1.getline(sem, 10, '|');
106     f1.close();
107 }
108 void stud::del()
109 {
110     char usn[10];
111     fstream f1("index.txt", ios::out | ios::trunc);
112     cout << "\nenter usn to delete:";
113     cin >> usn;
114     int max = nor - 1, min = 0, flag = 0, mid;
115     while (min <= max && flag == 0)
116     {
117         mid = (min + max) / 2;
118         if (strcmp(usn, index[mid]) == 0)
119         {
120             flag = 1;
121             cout << "\nrecord delated\n";
122             for (int i = mid; i < nor; i++)
123             {
124                 strcpy(index[i], index[i + 1]);
    
```

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lab\_5

a.exe

index.txt

p.cpp

p.exe

rec.txt

tempCodeRunnerFil...

lab2

lab3

lab4

OUTLINE

TIMELINE

lab\_5 > C++ p.cpp > stud::del()

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```

stud::del()
{
    add = atoi(indexadd[i]);
    s.unpack(add);
    cout << s.usn << "\t" << s.name << "\t" << s.brn <
}

ain()

tud s;
nt ch;
out << "1 add\n2 search\n3 delete\n4 display\n5 exit\n";
o

cout << "enter your choice:";
cin >> ch;
switch (ch)
{
case 1:
    s.add();
    break;
case 2:
    s.search();
    break;
case 3:
    s.del();
    break;
case 4:
    s.disp();
    break;
// case 5:

```

lab\_5 > C++ p.cpp > ...

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```

case 2:
    s.search();
    break;
case 3:
    s.del();
    break;
case 4:
    s.disp();
    break;
// case 5:
//     remove("index.txt");
//     remove("rec.txt");
    break;
}
} while (ch != 5);

```

1: g++       

```
PS C:\Users\ritvi\OneDrive\Desktop\FS_LAB> cd "c:\Users\ritvi\OneDrive\Desktop\FS_LAB\lab_5\" ; if ($?) { g++ p.cpp -o p } ; if ($?) { .\p
}
p.cpp:7:19: warning: built-in function 'index' declared as non-function [-Wbuiltin-declaration-mismatch]
  char index[100][50], indexadd[100][50];
                ^
1 add
2 search
3 delete
4 display
5 exit
enter your choice:1

  enter usn,name,branch,and sem:
100 ritviz ise 6
enter your choice:1

  enter usn,name,branch,and sem:
101 roshan cse 7
enter your choice:1

  enter usn,name,branch,and sem:
103 yash ece 4
enter your choice:1

  enter usn,name,branch,and sem:
104 sid mech 8
enter your choice:4
usn    name    branch  sem
100    ritviz  ise      6
101    roshan  cse      7
103    yash    ece      4
104    sid     mech     8
enter your choice:1

  enter usn,name,branch,and sem:
101 sahil cse 5
```

1: g++

```
enter usn,name,branch,and sem:
100 ritviz ise 6
enter your choice:1
```

```
enter usn,name,branch,and sem:
101 roshan cse 7
enter your choice:1
```

```
enter usn,name,branch,and sem:
103 yash ece 4
enter your choice:1
```

```
enter usn,name,branch,and sem:
104 sid mech 8
enter your choice:4
usn      name      branch    sem
100      ritviz    ise       6
101      roshan     cse       7
103      yash       ece       4
104      sid       mech      8
enter your choice:1
```

```
enter usn,name,branch,and sem:
101 sahil cse 5
```

```
duplicate entry
enter your choice:3
```

```
enter usn to delete:104
```

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1: g++

101 roshan cse 7  
enter your choice:1  
  
enter usn,name,branch,and sem:  
103 yash ece 4  
enter your choice:1  
  
enter usn,name,branch,and sem:  
104 sid mech 8  
enter your choice:4  

usn	name	branch	sem
100	ritviz	ise	6
101	roshan	cse	7
103	yash	ece	4
104	sid	mech	8

  
enter your choice:1  
  
enter usn,name,branch,and sem:  
101 sahil cse 5  
  
duplicate entry  
enter your choice:3  
  
enter usn to delete:104  
  
record delated  
enter your choice:



