



EXPERIMENT NUMBER 10

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UID – 20BCS2761

SEC/GROUP – 26 (B)

SUBJECT – C++ LAB

D.O.P – 8 MAY 2021

Aim of Experiment - WAP to copy the contents of one file to another and display it on output screen.

Things to do Before Program

Create two files say **codes.txt** and **cracker.txt** inside the same directory where you're saving our C++ source code. That is, either:

Create two files inside the directory where you're saving your program or going to save your C++ program of copy file (given below)

Or save your C++ program (that copies the content of one file to another) in that folder where the two files **codes.txt** and **cracker.txt** are created.

Algorithm –

STEP 1: START

STEP 2: Declare Header file and namespace

STEP 3: In main method declare ch, sourcefile[20],targetfile[20] STEP 4: Declare

File*fs,*ft

STEP5: Inputthenameofsourcefileandpassthroughfopen(...)methodand store in fs

STEP 6: if fs=NULL print error occurred

STEP 7: Input the name of target file and pass through fopen(...) method and store in ft

STEP 8: ch=fget(fs)

STEP 9: if(ch!=EOF)

STEP 10: fput(ch,ft)

STEP 11: ch=fget(fs) goto



STEP 12: print "File copied Successfully"

STEP 13: fclose(fs)

STEP 14: fclose(ft)

STEP 15: STOP

PROGRAM CODE –

```
c++ files >  coderunner.c++ >  main()
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6
7  {
8
9      char ch, sourceFile[20], targetFile[20];
10
11     FILE *fs, *ft;
12
13     cout << "Enter the Name of Source File: ";
14
15     cin >> sourceFile;
16
17     fs = fopen(sourceFile, "r");
18
19     if (fs == NULL)
20
21     {
22
23         cout << "\nError Occurred!";
24
25         return 0;
26     }
27
28     cout << "\nEnter the Name of Target File: ";
29
30     cin >> targetFile;
31
32     ft = fopen(targetFile, "w");
33
34     if (ft == NULL)
35
36     {
37
38         cout << "\nError Occurred!";
39
40         return 0;
41     }
42
```

```
42
43     ch = fgetc(fs);
44
45     while (ch != EOF)
46     {
47         {
48             fputc(ch, ft);
49
50             ch = fgetc(fs);
51         }
52     }
53
54     cout << "\nFile copied successfully.";
55
56     fclose(fs);
57
58     fclose(ft);
59
60     cout << endl;
61
62     return 0;
63 }
```

Output. Program :-

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

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PS D:\coding files> cd "d:\coding files\c++ files\" ; if ($?)
Enter the Name of Source File: coderunner.c++

Enter the Name of Target File: c1

File copied successfully.
PS D:\coding files\c++ files> █
```



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Aim of Experiment – WAP to read the class object of student info such as name, age and roll no from the keyboard and to store them on a specified file using read() and write() functions. Again the same file is opened for reading and displaying the contents of the file on the screen.

Algorithm –

STEP 1: START

STEP 2: Declare Header file and namespace and declare a class Student

STEP 3: In Student declare private member name of size 30 and age variables
STEP 4: Input name and age under function getData()

STEP 5: Define showData() to print the data

STEP 6: In main method declare student object, ofstream file
STEP 7: open the file using file.open function

STEP 8: if(file is not present then print “Error message”) else print ”file created successfully”

STEP 9: call getData using the student’s object
STEP 10:

Write into file

STEP 11: Close the file

STEP 12: reopen file in input data and read data STEP 13: open file 1

STEP 14: again open the file in read mode STEP 15: read

data from the file

STEP 16: display data on monitor STEP 17:

close the file

STEP 18: STOP

PROGRAM CODE –

```
c++ files > G+ coderunner.c++ > student > name
1  #include <iostream>
2
3  #include <fstream>
4
5  using namespace std;
6
7  //class student to read and write student details
8
9  class student
10
11  {
12
13  private:
14      char name[30];
15
16      int age;
17
18  public:
19      void getData(void)
20
21      {
22          cout << "Enter name:";
23          cin.getline(name, 30);
24
25          cout << "Enter age:";
26          cin >> age;
27      }
28
29      void showData(void)
30
31      {
32
33          cout << "Name:" << name << ",Age:" << age << endl;
34      }
35  };
36
37  int main()
38
39  {
40
41      student s;
42
43      ofstream file;
44
45      //open file in write mode
46
47      file.open("aaa.txt", ios::out);
48
```

```
48
49     if (!file)
50
51     {
52
53         cout << "Error in creating file.." << endl;
54
55         return 0;
56     }
57
58     cout << "\nFile created successfully." << endl;
59
60     //write into file
61
62     s.getData(); //read from user
63
64     file.write((char *)&s, sizeof(s)); //write into file
65
66     file.close(); //close the file
67
68     cout << "\nFile saved and closed succesfully." << endl;
69
70     //re open file in input mode and read data
71
72     //open file1
73
74     ifstream file1;
75
76     //again open file in read mode
77
78     file1.open("aaa.txt", ios::in);
79
80     if (!file1)
81     {
82
83         cout << "Error in opening file..";
84
85         return 0;
86     }
87
88     //read data from file
89
90     file1.read((char *)&s, sizeof(s));
91
92     //display data on monitor
93
```



```
91
92     //display data on monitor
93
94     s.showData();
95
96     //close the file
97
98     file1.close();
99
100    return 0;
101 }
```

OUTPUT PROGRAM –

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS D:\coding files> cd "d:\coding files\c++ files\" ; if (\$?)

File created successfully.

Enter name:sachin

Enter age:20

File saved and closed successfully.

Name:sachin, Age:20

PS D:\coding files\c++ files> █

