

Exp 1 - File Operations

Aim: To perform different types of file operations.

Algorithm: File operations done with “fstream” library, that is create file, read file, update file and delete file.

Program:

```
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
    int choice;
    cout << "Enter Your Choice:\n1 - Create a new File\n2 - Read
File\n3 - Write File\n4 - Delete File.\n";

    fstream file;
    string contents = "";
    bool flag = true;
    while (flag)
    {
        cin >> choice;
        switch (choice)
        {
            case 1:
                file.open("test.txt", ios::out);
                if (!file)
                {
                    cout << "Error in creating file !!\n ";
                    break;
                }
                cout << "File created successfully !!\n ";
                file.close();
                cout << "\n";
                break;
            case 2:
                file.open("test.txt");
                char ch;
                if (!file)
                {
                    cout << "Error: File could not be opened !!\n ";
                    break;
                }
                cout << "Contents of file are as follows : "
```

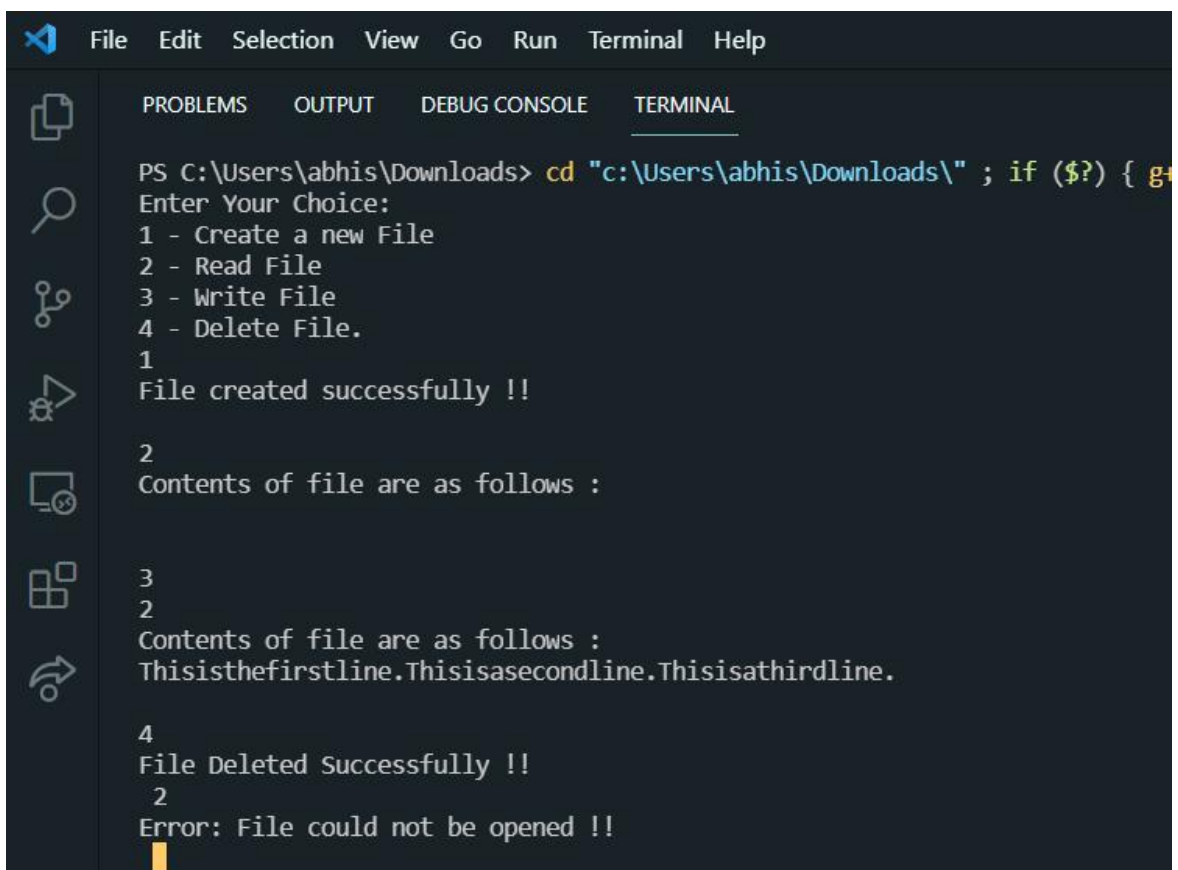
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```
        << "\n";
    file >> ch;
    while (!file.eof())
    {
        cout << ch;
        file >> ch;
    }
    file.close();
    cout << "\n\n";
    break;
case 3:
    contents = "This is the first line.\nThis is a second
line.\nThis is a third line.\n";
    file.open("test.txt");
    file << contents;
    file.close();
    break;
case 4:
    int status = remove("test.txt");
    if (status == 0)
        cout << "File Deleted Successfully !!\n ";
    else cout
        << "Error Occurred! File could not be
deleted !!\n ";
        break;
    }
}
return 0;
}
```

Output:



```
File Edit Selection View Go Run Terminal Help
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\abhis\Downloads> cd "c:\Users\abhis\Downloads\" ; if ($?) { g+
Enter Your Choice:
1 - Create a new File
2 - Read File
3 - Write File
4 - Delete File.
1
File created successfully !!

2
Contents of file are as follows :

3
2
Contents of file are as follows :
Thisisthefirstline.Thisisasecondline.Thisisathirdline.

4
File Deleted Successfully !!
2
Error: File could not be opened !!
```

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Result: File operations have been successfully implemented.