27/11/2020

Object Oriented Programming

ASSIGNMENT – 8

**THAPAR INSTITUTE OF ENGINEERING
AND TECHNOLOGY PATIALA - 147007**

SUBMITTED BY: **SUBMITTED TO**:

Shouraya Goyal   Dr. Rinkle Rani

101918064

QUESTION 1

Code

```cpp
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
    fstream file;
    char ch;
    file.open("NOTES.txt",ios::out);
    for(int i=1;i<=100;i++)
    file<<i<<endl;
    cout<<"NOTES.txt has being created successfully"<<endl;
    return 0;
}
```

Output of Question 1

```
c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>cd "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignm
ent\Lab Assignment 8\" && g++ 1.cpp -o 1 && "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8\"1
NOTES.txt has being created successfully

c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>
```

QUESTION 2
Code

```cpp
#include <iostream>
#include <fstream>
using namespace std;
int main()
{
    fstream file;
    char ch;
    int i=0,j=0;
    file.open("OUT.txt",ios::out);
    for(int i=1;i<=100;i++)
    file<<i<<endl;
    file<<"Assignment done by Shouraya Goyal."<<endl;
    file.close();
    file.open("OUT.txt",ios::in);
    file.get(ch);
    while(!file.eof())
    {
        if(ch>=65 && ch<=90 || ch==32)
        {
            cout<<ch;
            i++;
        }
        else if(ch>=97 && ch<=122 || ch==32)
        {
            cout<<ch;
            j++;
        }
        file.get(ch);
    }
    cout<<"\nNumber of characters are "<<i+j<<" including space.";
    file.close();
    return 0;
}
```

Output of Question 2

QUESTION 3
Code

```cpp
#include<fstream>
#include<iostream>
using namespace std;
int main()
{
        char string[20];
        fstream f;
        fstream f2;
        f.open("FILE1.txt",ios::out); //opening file to write data
        cout<<"Enter text to be written in file."<<endl<<"Press * to end input."<<endl;
        cin.getline(string,21,'*');
        f<<string;
        f.close();
        f.open("FILE1.txt",ios::in|ios::ate); //opening file to read data
        f2.open("FILE2.txt",ios::in|ios::ate);
        f.seekp(ios::beg);
        cout<<endl<<"Reading File..."<<endl;
        while(f.getline(string,21,'*'))
                {
                cout<<string;
                f2<<string;
                }
        f.close();
        f2.close();
}
```

Output of Question 3


```
c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>cd "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignm
ent\Lab Assignment 8\" && g++ 3.cpp -o 3 && "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8\"3
Enter text to be written in file.
Press * to end input.
Hello I am Shouraya*

Reading File...
Hello I am Shouraya
c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>
```

QUESTION 4
Code

```cpp
#include<iostream>
#include<fstream>
using namespace std;

int main()
{
        ofstream infile;
        int x;
        infile.open("my1.bin",ios::out|ios::binary);
        int i;
        for(i=0;i<5;i++)
        {
                infile<<i+1<<"\n";
        }
        infile.close();
        ifstream nfile;
        nfile.open("my1.bin",ios::in|ios::binary);
        while(!nfile.eof())
        {
                nfile>>x;
                cout<<x;
        }
        nfile.close();
```

```
}
```

Output of Question 4

QUESTION 5
Code

```cpp
#include<iostream>
#include<stdio.h>
#include<fstream>
#include<string>
using namespace std;
int main()
{
    string str;
    cout<<"Enter a String: "<<endl;
    getline(cin, str);
    cout<<"Length of the string is: "<<sizeof(str)/sizeof(str[0])<<endl;
    ofstream ofile("StringFile.txt", ios::out);
    int i=0;
    char ch;
    cout<<"Writing to file...."<<endl;
    while(str[i]!='\0')
    {
        ofile.put(str[i]);
        i++;
    }
    ofile.close();
    ifstream ifile("StringFile.txt", ios::in);
    cout<<"The contents of File are..."<<endl;
```

```
    while(ifile.get(ch))
    {
        cout<<ch;
    }
    return 0;
}
```

Output of Question 5

```
c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>cd "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignm
ent\Lab Assignment 8\" && g++ 5.cpp -o 5 && "c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8\"5
Enter a String:
My name is Shouraya
Length of the string is: 24
Writing to file....
The contents of File are...
My name is Shouraya
c:\Users\shour\OneDrive\Desktop\Thapar\Sem 3\Object Orientated Programming\OOPs-Lab-Assignment\Lab Assignment 8>
```