

(FILE HANDLING)
(MADE BY ALI AKBER)
(BSCS 2ND SS1)

///CREATING A FILE.****

```
#include<iostream>

#include<stdlib.h>

#include<fstream>

using namespace std;

int main(){

    ofstream file;

    file.open("F:\\BSCS.txt",ios::out);

    if (file.fail()==true){

        cout<<"File not found"<<endl;

        exit(1);

    }

    file<<"Hello Class"<<endl;

    file.close();

    return 0;

}
```

Question 1 Write a C++ program to write number 1 to 100 in a data file NOTES.TXT.

```
#include<iostream>

#include<stdlib.h>

#include<fstream>

using namespace std;

int main(){
```

```

ofstream file;

file.open("E:\\NOTES.txt",ios::out);

if (!file){

    cout<<"File not found"<<endl;

    exit(1);

}

for(int i=1;i<=10;i++){

    file<<i<<" "<<endl;

}

file.close();

return 0;

}

```

///CREATING 5 FIVE NAMES IN THE FILE.

```

#include<iostream>

#include<stdlib.h>

#include<fstream>

using namespace std;

int main(){

    ofstream file;

    file.open("E:\\BSCS.txt",ios::out);

    if (!file){

        cout<<"File not found"<<endl;

        exit(1);

    }

    char name[50];

    for(int i=1;i<=5;i++){

```

```

        cout<<"Enter name:"<<i<<":";

        cin.getline(name,50);

        file<<name<<endl;

    }

    file.close();

    return 0;

}

```

/// Writing the Employees Record into the txt file

```

#include<iostream>

#include<stdlib.h>

#include<fstream>

using namespace std;

int main()

{

    ofstream file("F:\\BSIT 2nd Reg.txt",ios::out);

    if(!file)

    {

        cout<<"File not found"<<endl;

        exit(1);

    }

    int id;

    char name[50];

    float salary;

    char opt;

```

```

do
{
    cout<<"Enter id ";

    cin>>id;

    cin.ignore();

    cout<<"Enter Name ";

    cin.getline(name,50);

    cout<<"Enter Salary ";

    cin>>salary;


    file<<id<<"\t"<<name<<"\t"<<salary<<endl;

    cout<<"Do you want to continue (y/n) ";

    cin>>opt;

}

while(opt == 'y' || opt == 'Y');


file.close();

return 0;

}

```

/// Display the data of file on the Screen. Whole statement

```

#include<iostream>

#include<fstream>

using namespace std;

int main()

{

    ifstream file;

```

```

file.open("E:\\BSCS.txt",ios::in);

if(!file)

{

    cout<<"File not found"<<endl;

    exit(1);

}

char ch[100];

int count=0;

while(!file.eof())

{

    file.getline(ch,100);

    cout<<ch<<endl;

    count++;

}

cout<<"Count is : "<<count<<endl;

file.close();

return 0;

}

```

Question 2 Write a C++ program, which initializes a string variable to the content

"Time is a great teacher but unfortunately it kills all its pupils. Berlioz" and outputs the string to the disk file OUT.TXT.

you have to include all the header files if required.

```
#include<iostream>
```

```
#include<stdlib.h>
```

```
#include<fstream>
```

```
using namespace std;
```

```

int main()
{
    ofstream file;

    file.open("E:\\BSCS.txt",ios::out);

    if(!file)
    {
        cout<<"File not found"<<endl;

        exit(1);

    }

    string content="Time is a great teacher but unfortunately it kills all its pupils. Berlioz";

    file<<content;

    file.close();

    return 0;
}

```

/// print all those statement that are start with 'A'.

/// print all those statement that are end with 'r'.

```
#include<iostream>
```

```
#include<stdlib.h>
```

```
#include<fstream>
```

```
#include<string.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
ifstream file("E:\\computer.txt",ios::in);

if(file.fail() == true)

{

    cout<<"File not found"<<endl;

    exit(1);

}


char str[1000];

int count = 0;

while(!file.eof())

{

    file.getline(str,1000);

    /*if(str[0] == 'A' || str[0] == 'a')

    {

        cout<<str<<endl;

        count ++;

    }*/

    int len = strlen(str);

    if(str[len-2] == 'R' || str[len-2] == 'r')

    {

        cout<<str<<endl;

        count ++;

    }

}

cout<<"Total No of Statement "<<count<<endl;

file.close();
```

```
        return 0;
    }
}
```

//Question 3 Write a user-defined function in C++ to read the content from a text file OUT.TXT,

///count and display the number of alphabets present in it.

```
#include<iostream>

#include<stdlib.h>

#include<string.h>

#include<fstream>

using namespace std;

int main()
{
    ifstream file;

    file.open("E:\\BSCS.txt",ios::out);

    if(!file)
    {
        cout<<"File not found"<<endl;
        exit(1);
    }

    char str[1000];

    int count=0;

    while(!file.eof()){

        file.getline(str,1000);

        count= strlen(str);

        count++;

    }
}
```



```
        cout<<"Total number of alphabets are:"<<count<<endl;

        file.close();

        return 0;

    }
```

// counting the all letters from the file

```
#include<iostream>

#include<fstream>

using namespace std;

int main()

{

    ifstream file;

    file.open("E:\\BSCS.txt",ios::in);

    if(!file)

    {

        cout<<"File not found"<<endl;

        exit(1);

    }

    char ch;

    int words=1,vowel=0,number=0,low=0,uper=0,special=0,spaces=0;

    while(!file.eof())

    {

        file.get(ch);

        if(islower(ch))

        {

            low++;

        }

    }

}
```

```
    }

    else if(isupper(ch))

    {

        uper++;

    }

    else if(isdigit(ch))

    {

        number++;

    }

    else

    {

        special++;

    }

    if((ch=='a' || ch=='A') || (ch=='e' || ch=='E') || (ch=='i' || ch=='I') || (ch=='o'
|| ch=='O') || (ch=='u' || ch=='U'))

    {

        vowel++;

    }

    if(ch==' ')

    {

        spaces++;

        words++;

    }

} //end of while

file.close();
```

```

        cout<<"Totals words :"<<words<<endl;

        cout<<"Totals Lower :"<<low<<endl;

        cout<<"Totals upperr :"<<uper<<endl;

        cout<<"Totals special :"<<special<<endl;

        cout<<"Totals Numbers :"<<number<<endl;

        cout<<"Totals Vowels :"<<vowel<<endl;

        cout<<"Totals Spaces :"<<spaces<<endl;

        return 0;

    }

```

/// converting all upper cases

```

#include<iostream>

#include<fstream>

using namespace std;

int main()
{
    ifstream file;

    file.open("E:\\BSCS.txt",ios::in);

    if(!file)
    {
        cout<<"File not found"<<endl;

        exit(1);

    }

    char ch;

    while(!file.eof())
    {

```

```

        file.get(ch);

        char ch1=toupper(ch);

        cout<<ch1;

    } //end of while

    file.close();

    return 0;

}

```

/// those statement that are start with 'A' store into another file.

```

#include<iostream>

#include<stdlib.h>

#include<fstream>

#include<string.h>

```

```

using namespace std;

```

```

int main()

{

    ifstream readfile("E:\\computer.txt",ios::in);

    if(readfile.fail() == true)

    {

        cout<<"File not found"<<endl;

        exit(1);

    }

}

```

```

    ofstream writefile("E:\\uni.txt",ios::out);

```

```

if(!writefile)
{
    cout<<"File opening fail"<<endl;
    exit(1);
}

char str[1000];
int count = 0;

while(!readfile.eof())
{
    readfile.getline(str,1000);
    if(str[0] == 'A' || str[0] == 'a')
    {
        writefile<<str<<endl;
        count ++;
    }
}

writefile<<"\n\nTotal No of Statement "<<count<<endl;
writefile.close();
readfile.close();
return 0;
}

```

///QUESTION.

```
#include <iostream>
```

```
#include <fstream>

#include <stdlib.h>

#include <string.h>

using namespace std;

int main()
{

    ifstream firead;

    firead.open("E:\\computer.txt",ios::in);

    if(firead.fail() == true)
    {

        cout<<"File not opened"<<endl;

        exit(1);

    }

    ofstream fiwrite;

    fiwrite.open("E:\\finding.txt",ios::out);

    if(firead.fail() == true)
    {

        cout<<"File not created"<<endl;

        exit(1);

    }

    char ch[1000];

    char finded[10];
```

```

cout<<"Enter the word that finds into the file (Computer) ";

cin>>findex;          /// Computer

while(!firead.eof())
{
    firead>>ch;

    if(strcmpi(ch,findex) !=0 )

        fiwrite<<ch<<' ';

    else if(strcmpi(ch,findex) ==0 )
    {
        char word[50];

        cout<<"Enter New word ";

        cin>>word;

        fiwrite<<word<<' ';

    }
}

firead.close();

fiwrite.close();

return 0;

}

```

Binary File

```

#include<iostream>
#include<fstream>

```

```

using namespace std;
int main()
{
    ofstream out;
    out.open("E:\\BSCS.txt",ios::binary);
    int no;
    cout<<"Enter no :";
    cin>>no;
    out.write((char*)&no,sizeof(no));
    out.close();
    ifstream in;
    in.open("E:\\BSCS.txt",ios::binary);
    if(!in)
    {
        cout<<"File not found"<<endl;
        exit(1);
    }
    int num;
    in.read((char*)&num,sizeof(num));
    cout<<"Numbber is :"<<num<<endl;
    in.close();
    return 0;
}

```

QNO2.

.....

```

#include<iostream>
#include<fstream>
using namespace std;
class Employee
{
    private:
        int id;
        char name[30];
        float salary;
    public:
        void GetData()
        {
            cout<<"Enter Id :";
            cin>>id;
            cout<<"Enter Name :";
            cin>>name;
            cout<<"Enter Salary :";
            cin>>salary;
        }
        void PutData()

```



```

        {
            cout<<"Id : "<<id<<endl;
            cout<<"Name : "<<name<<endl;
            cout<<"Salary : "<<salary<<endl;
        }
    };
int main()
{
    ofstream out;
    out.open("E:\\BSCS.txt",ios::binary);
    Employee emp;
    emp.GetData();
    out.write((char*)&emp,sizeof(emp));
    out.close();

    ifstream in;
    in.open("E:\\BSCS.txt",ios::binary);
    if(!in)
    {
        cout<<"File not found"<<endl;
        exit(1);
    }
    Employee emp1;
    in.read((char*)&emp1,sizeof(emp1));
    emp1.PutData();
    in.close();

    return 0;
}

```

///QNO3.

```
#include<iostream>
```

```
#include<fstream>
```

```
using namespace std;
```

```
class Employee
```

```
{
```

```
    private:
```

```
        int id;
```

```

        char name[30];

        float salary;

    public:

        void GetData()
        {

            cout<<"Enter Id :";

            cin>>id;

            cout<<"Enter Name :";

            cin>>name;

            cout<<"Enter Salary :";

            cin>>salary;

        }

        void PutData()
        {

            cout<<"Id :"<<id<<endl;

            cout<<"Name :"<<name<<endl;

            cout<<"Salary :"<<salary<<endl;

        }

};

```

```

int main()
{

    Employee emp[3], em[3];

    ofstream file;

    file.open("E:\\Text.txt",ios::binary);

```

```

for(int i = 0; i <3; i++)
{
    emp[i].GetData();
    file.write((char*)&emp[i],sizeof(emp[i]));
}
file.close();

ifstream in;
in.open("E:\\Text.txt",ios::binary);
if(in.fail())
{
    cout<<"File not found"<<endl;
    exit(1);
}
cout<<endl;
for(int i = 0; i <3; i++)
{
    in.read((char*)&em[i],sizeof(em[i]));
    em[i].PutData();
}
in.close();

return 0;
}

```