**LAB 14**

**Objectives**

To understand the concept of file I/O.

**Task 1**

Write a program to open a file myfile .txt and write “Hello students this computer programming class”

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ofstream myfile;

myfile.open("example.txt");

myfile<<"Hello Student.Good Morning";

myfile.close();

system("pause");

return 0;

}

**Task 2**

Write a program to read a list of students from file and print the list and number of students.

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ifstream infile;

infile.open("list.txt");

if(infile.fail())

{

cerr<<"Error in opening file";

}

string student;

int count=1;

while(!infile.eof())

{

infile>>student;

cout<<count<<"\t"<<student<<endl;

count++;

}

system("pause");

return 0;

}

**Task 3**

Write a program to read the text file student and print on console.

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ifstream infile;

infile.open("STUDENTS.txt");

if(infile.fail())

{

cerr<<"Error in opening file";

}

string student;

int count=0;

while(!infile.eof())

{

infile>>student;

cout<<student<<"\t";

count++;

if(count==4)

{

cout<<endl;

count=0;

}

}

system("pause");

return 0;

}

**Task 4**

Write a program to read the text file line by line and print on console.

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

string line;

ifstream File("input.txt");

while ( getline ( File,line) )

{

cout<<line<<endl;

}

File.close();

system("pause");

return 0;

}

**Task 5**

Write a program to input name and age of two persons and save data into file

Example

Sara 24

John 30

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

ofstream outdata;

string name;

int age;

char alpha;

outdata.open("myfile.txt");

do{

cout<<"Enter name : ";

cin>>name;

cout<<"Enter age : ";

cin>>age;

cout<<"\n"<<name<<" : "<<age<<endl;

outdata<<name<<" : "<<age<<endl;

cout<<"\n Add more : ";

cin>>alpha;

}

while(alpha!='n');

outdata.close();

system ("pause");

return 0;

}

**Task 6**

Write a program to read a text file and count number of words and sentences in a file.

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

int main()

{

string word;

int count\_w=0;

ifstream myfile;

myfile.open("task6.txt");

while(!myfile.eof())

{

myfile>>word;

count\_w++;

}

cout<<"Count of word is : "<<count\_w-1<<endl;

string line;

int count\_l=0;

ifstream file;

file.open("task6.txt");

while ( getline ( file,line) )

{

count\_l++;

}

file.close();

cout<<"\nCount of line is : "<<count\_l<<endl;

char sent;

int count\_sent=0;

ifstream dotfile;

dotfile.open("task6.txt");

while (!dotfile.eof())

{

dotfile>>sent;

if (sent == '.' || sent == '!' || sent == '?')

count\_sent++;

}

cout<<"\nCount of sentence is : "<<count\_sent<<endl;

system("pause");

return 0;

}