**ASSIGNMENT 8**

**1. Write a C++ program to write number 1 to 200 in a data file NUM.TXT.**

//WAP to write 1 to 200 in a file num.txt

#include<iostream>

#include<fstream>

using namespace std;

int main(){

fstream fobj("NUM.txt",ios::out); //constructor method

//fobj.open("num.txt",ios::out);

if(!fobj){

cout<<"file not open"<<endl;

}

int i;

for(i=1;i<=200;i++){

fobj<<i<<endl; //cout<<i;

}

return 0;

}

**2. Write a user-defined function in C++ to read the content from a text file NOTES.TXT,**

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

#include<iostream>

#include<fstream>

using namespace std;

int main(){

fstream fobj;

fobj.open("test.txt",ios::out);

if(!fobj){

cout<<"file not opened"<<endl;

}

fobj<<"hello world"<<endl;//13= eof+endl

fobj.close();

fobj.open("test.txt",ios::in);

char ch;

int count=0;

while(!fobj.eof()){

fobj.get(ch);

cout<<ch<<endl;

count++;

}

cout<<"Number of characters in file is: "<<count<<endl;

return 0;

}

**3. Write a program to perform read/write binary I/O operation on a file (i.e. write the**

**object of the class to a file)**

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

int a[]={10,20,30,40,50};

fstream fs;

fs.open("myfile1",ios::binary | ios::out);

fs.write((char\*)&a,sizeof(a));

fs.close();

int i;

for(i=0;i<7;i++){

a[i]=0;

}

fs.open("myfile1",ios::binary | ios::in);

fs.read((char\*)&a, sizeof(a));

for(i=0;i<5;i++){

cout<<a[i];

cout<<" ";

}

fs.close();

return 0;

}

**4. Write a program to copy the contents of one file to another.**

#include<iostream>

#include<string.h>

#include<fstream>

using namespace std;

int main(){

fstream copy\_f;

copy\_f.open("myfile1",ios::in);

if(!copy\_f){

cout<<"error1";

}

fstream dest\_f;

dest\_f.open("myfile2",ios::out);

if(!dest\_f){

cout<<"error2";

}

char ch;

while(!copy\_f.eof()){

copy\_f.get(ch);

dest\_f.put(ch);

}

copy\_f.close();

dest\_f.close();

return 0;

}

**5. Write a program to implement I/O operations on characters. I/O operations include**

**inputting a string, calculating the length of the string, storing the string in a file and**

**fetching the stored characters from it.**

**6. Practice file pointers using functions seekp(), seekg(), tellp() and tellg().e string in a file and fetching the stored characters from it. 6. Practice file pointers using functions seekp(), seekg(), tellp() and tellg().**

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

fstream fs;

fs.open("myfile1",ios::in);

char ch;

fs.seekg(2L,ios::beg);

fs.get(ch);

cout<<ch;

fs.tellg();

fs.get(ch);

cout<<ch;

fs.close();

fs.open("myfile1",ios::out);

fs.tellp();

fs.put(ch);

cout<<ch;

fs.seekp(1L,ios::cur);

fs.put('s');

fs.close();

return 0;

}