**Lab-9 Assignment**

**1)C++ program to create file and write data into the file**

**Algorithm:** In this program we are including fstream Library to use the file handling in c++. So, first we have created the variables required to display the file and declaring ofstream vit which create a file to write on it which is named as vit.txt. In that we opened the file and giving the information required and we are writing in the file with ‘<<’ operator and then we are closing it. After we read the file what is in the file with ‘>>’ operator and printing output and closing the file.

**Logic:**

#include <fstream>

#include <iostream>

using namespace std;

int main ()

{

char name[50];

char rollno[50];

char email[50];

char id[50];

char street[50];

char village[50];

char town[50];

char city[50];

ofstream vit;

vit.open("vit.txt");

if(!vit)

{

cout<<"File creation failed"<<endl;

}

else

{

cout<<"File is Created and is existing"<<endl;

}

cout << "Writing to the file"<<endl;

cout << "Enter your name: ";

cin.getline(name,50);

cout << "Enter your rollno: ";

cin.getline(rollno,50);

cout << "Enter your email: ";

cin.getline(email,50);

cout << "Enter your id: ";

cin.getline(id,50);

cout << "Enter your street: ";

cin.getline(street,50);

cout << "Enter your village: ";

cin.getline(village,50);

cout << "Enter your town: ";

cin.getline(town,50);

cout << "Enter your city: ";

cin.getline(city,50);

vit<<name<<endl;

vit<<rollno<<endl;

vit<<email<<endl;

vit<<id<<endl;

vit<<street<<endl;

vit<<village<<endl;

vit<<town<<endl;

vit<<city<<endl;

vit.close();

ifstream vit1;

vit1.open("vit.txt");

cout<<"Reading from the file"<<endl;

vit1>>name;

vit1>>rollno;

vit1>>email;

vit1>>id;

vit1>>street;

vit1>>village;

vit1>>town;

vit1>>city;

cout<<name<<endl;

cout<<rollno<<endl;

cout<<email<<endl;

cout<<id<<endl;

cout<<street<<endl;

cout<<village<<endl;

cout<<town<<endl;

cout<<city<<endl;

vit1.close();

cout<<"Submitted by G.Hruthesh Reddy,Admn.No 20BCB7031"<<endl;

return 0;

}

**Output:**

**A screenshot of a computer

Description automatically generated**

**2)C++ program for sales and creating sales1 to append total amount**

**Algorithm:** In this program we have created variable s for the sales.dat and giving the required variables to it and open the file sales.dat and writing the name, quantity, price. After closing it we will read it. Now we make an another file to append with the help ios::app while opening it and then append total amount and after then we read it the sales1.dat file and then we get the result.

**Logic:**

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

fstream s;

s.open("sales.dat", ios::out);

cout<<"Writing to the file"<<endl;

char productname[50]="Goodday";

char qty[50]="10";

char price[50]="10";

s<<productname<<endl;

s<<qty<<endl;

s<<price<<endl;

s.close();

s.open("sales.dat", ios::in);

s >> productname;

cout<<"Product name is : "<< productname<<endl;

s >> qty;

cout<<"Quantity : "<< qty<<endl;

s >> price;

cout<<"Price : "<< price<<endl;

s.close();

s.open("sales1.dat",ios::app);

char total\_amount[50]="100";

s<<total\_amount<<endl;

s.close();

s.open("sales1.dat", ios::in);

s>>total\_amount;

cout<<"Total amount : "<< total\_amount <<endl;

s.close();

cout<<"Submitted by G.Hruthesh Reddy,Admn.No 20BCB7031"<<endl;

return 0;

}

**Output:**

**Text

Description automatically generated**

**Text

Description automatically generated**

**3)C++ program to display 10 names and append 2 names**

**Algorithm:** In this program at first, we declare the name and then using for loop we write the 10 names in the file student.txt which was opened before and then we read the file. For adding two more students we use the append operator to append the two names in the file so using for loop we write the two names and then read it in the file, and we will get the result.

**Logic:**

#include<fstream>

#include<iostream>

using namespace std;

int main()

{

fstream s;

char name[50];

int i;

s.open("student.txt",ios::out);

for(int i=0;i<10;i++)

{

cout<<"Enter the name of student : ";

cin>>name;

s<<name<<endl;

}

s.close();

s.open("student.txt",ios::in);

for(int i=0;i<10;i++)

{

s>>name;

cout<<name<<endl;

}

s.close();

cout<<"Enter two more Student names : "<<endl;

s.open("student.txt",ios::app);

for(int i=0;i<2;i++){

cout<<"Enter the name of student : ";

cin>>name;

s<<name<<endl;

}

s.close();

cout<<"Names of two more students are : "<<endl;

s.open("student.txt",ios::in);

for(int i=0;i<12;i++)

{

s>>name;

cout<<name<<endl;

}

s.close();

cout<<"Submitted by G.Hruthesh Reddy,Admn.No 20BCB7031"<<endl;

return 0;

}

**Output:**

**A screenshot of a computer

Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**Time of Submission:** 11:30,1/10/21