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**ROLL NO.: 2K19/CO/450**

**SUBJECT : OOP LAB**

**LAB ASSIGNMENT NO. : 04**

**SUBMITTED TO :**

**DIKSHA RUHELA MAM**

**PROGRAM - 9**

1. **Write a program that reads a text file and creates another file that is identical except that every sequence of consecutive blank spaces is replaced by a single space.**

#include<iostream>

#include<fstream>

#include<stdio.h>

#include<string>

using namespace std;

int main(){

ofstream of;

of.open("hasib.txt");

char c;

ifstream inf("santo.txt");

inf.get(c);

while(inf){

if(c==' '){

while(inf){

inf.get(c);

if(c!=' ')

break;

}

of<<" ";

of<<c;

}

else

of<<c;

inf.get(c);

}

return 0;

}

1. **A file contains a list of telephone numbers in the following form**

**John 23456**

**Ahmed 9876**

**…………… …………**

**the names contain only one word and the names and telephone numbers are separated by white spaces. Write a program to read this file and output the list in two columns. The names should be left justified and the numbers should be right justified.**

#include<iostream>

#include<fstream>

#include<string>

#include<iomanip>

using namespace std;

int main(){

char name[100],n[100],number[100];

ifstream santo("robin.txt");

cout<<" Enter your desired name to find mobile number : " ;

cin>>n;

again:

santo>>name;

if(!strcmp(name,n)){

santo.getline(number,100);

cout<<setw(-20)<<name<<setw(25)<<number<<"\n";

}

else{

if(santo.eof()!=0)

cout<<" Sorry your input name is not found in list \n";

else

goto again;

}

return 0;

}

1. **Write a program that will create a data file containing the list of telephone numbers given in exercise in 11.2. Use a class object to store each set of data.**

#include<iostream>

#include<fstream>

#define size 5

using namespace std;

class phone{

public:

void set\_data();

};

void phone:: set\_data(){

ofstream santo("phone.txt");

char\*name[size]={"sattar","santo","kamruzzaman","robin","kawser"};

char\*number[size]={"01673050495","01723783117","01818953250","+214324513","+455652132"};

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

santo.setf(ios::left,ios::adjustfield);

santo.width(20);

santo<<name[i];

santo.setf(ios::right,ios::adjustfield);

santo.width(15);

santo<<number[i]<<"\n";

}

}

int main(){

phone book;

book.set\_data();

return 0;

}

1. **Write an interactive, menu-driven program that will access the file created in exercise 11.3 and implement the tasks:**
2. **Determine the telephone number of the specified person.**
3. **Determine the name if a telephone number is known.**
4. **Update, the telephone number, whenever there is a change.**

#include<iostream>

#include<fstream>

#include<string>

#include<iomanip>

using namespace std;

int main(){

char name[100],n[100],m[100],number[100];

ifstream santo("robin.txt");

int test;

cout<<" Press 1 to find mobile number of specified person\n "

<<" Press 2 to find name of specified number \n"

<<" Press 3 to update number \n"

<<" What is your option ?: ";

cin>>test;

if(test==1){

cout<<" Enter the desired name : ";

cin>>n;

cout<<"\n";

again1:

santo>>name;

if(!strcmp(name,n)){

santo.getline(number,100);

cout<<setw(-20)<<name<<setw(25)<<number<<"\n";

}

else{

if(santo.eof()!=0)

cout<<" Sorry your input name is not found in list \n";

else

goto again1;

}

}

else if(test==2){

cout<<" Enter the desired number : ";

cin>>n;

cout<<"\n";

again2:

santo>>name;

santo>>number;

if(!strcmp(number,n))

cout<<setw(-20)<<number<<setw(25)<<name<<"\n";

else{

if(santo.eof()!=0)

cout<<" Sorry your input number is not found in list \n";

else

goto again2;

}

}

else if(test == 3){

ofstream hasib("modified.txt");

cout<<"Enter the name whose number have to change : ";

cin>>n;

again3:

santo>>name>>number;

if(!strcmp(n,name)){

cout<<" Enter changed mobile number of"<<name<<": ";

cin>>m;

hasib.setf(ios::left,ios::adjustfield);

hasib.width(20);

hasib<<name;

hasib.setf(ios::right,ios::adjustfield);

hasib.width(15);

hasib<<m<<"\n";

while(santo){

santo>>name>>number;

hasib.setf(ios::left,ios::adjustfield);

hasib.width(20);

hasib<<name;

hasib.setf(ios::right,ios::adjustfield);

hasib.width(15);

hasib<<number<<"\n";

}

}

else{

if(santo.eof()!=0)

cout<<" Sorry your input name is not available \n";

else{

hasib.setf(ios::left,ios::adjustfield);

hasib.width(20);

hasib<<name;

hasib.setf(ios::right,ios::adjustfield);

hasib.width(15);

hasib<<number<<"\n";

goto again3;

}

}

}

return 0;

}