

LAB 4 exercise

PROGRAM:

```
#include<iostream>
using namespace std;

class Telephone_dir{
public:
long int phone_no;
string name;
string address;

public:
void store_data(){
cout<<"please enter your phone number"<<endl;
cin>>phone_no;
cout<<"please enter your name without space"<<endl;
cin>>name;
cout<<"please enter your phone address sepreted by '\',' and without space"<<endl;
cin>>address;
}

void show_data(){
cout<<"name :"<<name<<endl;
cout<<"phone number :"<<phone_no<<endl;
cout<<"address :"<<address<<endl;
}

void show_data(string str){
cout<<"mr/mrs "<<str<<"'s data is given below"<<endl;
cout<<"phone number :"<<phone_no<<endl;
cout<<"address :"<<address<<endl;
}

void show_data(long int in){
cout<<"phone number: "<<in<<"'s data is given below"<<endl;
cout<<"name: :"<<name<<endl;
cout<<"address :"<<address<<endl;
}

void modify(){
long int phone_no_buff;
string name_buff;
string address_buff;
cout<<"please enter name to be modified"<<endl;
```

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cin>>name_buff;
name=name_buff;
cout<<"please enter phone number to be modified"<<endl;
cin>>phone_no_buff;
phone_no=phone_no_buff;
cout<<"plesase enter address to be modifies sepreted by\','"<<endl;
cin>>address_buff;
address=address_buff;
show_data();

}
};

int main(){
bool check_loop=true;
Telephone_dir ppl[2];
for(int i=0;i<2;i++){
ppl[i].store_data();
}
while(check_loop){
cout<<"for modify the data please enter '\0\' and for showing the data please
enter '\1\'"<<endl;
short int check;//for checking the choises
short int cnt=0;//for checking if there is duplicate dara or not
short int index;//for storing the index to be modified
string nm;
cin>>check;
if(check==0){
cnt=0;
cout<<"for modify by mane enter '\0\' and by phone number enter '\1\'"<<endl;
short int byte;
cin>>byte;
if(byte==0){
cout<<"please enter your name here"<<endl;
cin>>nm;
for(int j=0;j<2;j++){
if(ppl[j].name==nm){
cnt++;
}
}
if(cnt>=2){
cout<<"there are same names found please enter your current phone number"<<endl;
long pn_no;
cin>>pn_no;
for(int k=0;k<2;k++){
if(ppl[k].phone_no==pn_no){
ppl[k].modify();
}
}
}
else{

```

```

for(int k=0;k<2;k++){
if(ppl[k].name==nm){
ppl[k].modify();
}
}
}
}
else if(byte==1){
cout<<" please enter your previous phone number"<<endl;
long pn_no;
cin>>pn_no;
for(int k=0;k<2;k++){
if(ppl[k].phone_no==pn_no){
ppl[k].modify();
}
}
}
}

else if(check==1){
cout<<"enter'\0' if you have to see data by your name or enter '\1' for see data by
number"<<endl;
short int ip_check;//for checking the cindition
cin>>ip_check;
if(ip_check==0){
cout<<"plese enter your name"<<endl;
string ip_nm_buff;//for storing the name for a while
cin>>ip_nm_buff;
for(int l=0;l<2;l++){
if(ppl[l].name==ip_nm_buff){
ppl[l].show_data(ip_nm_buff);
}

}

}
else if(ip_check==1){
cout<<"plese enter your phone number"<<endl;
long int ip_nm_buff;//for storing the number for a while
cin>>ip_nm_buff;
for(int l=0;l<2;l++){
if(ppl[l].phone_no==ip_nm_buff){
ppl[l].show_data(ip_nm_buff);
}

}
}
else{
cout<<"it is not matched with your input"<<endl;
continue;
}
}

```

```

}
else{
cout<<"you have entered some wrong information please enter correct
information"<<endl;
continue;
}

}
}

```

OUTPUT:

INITALLY DONE WITH 2 MEMBER TO COVER OUTPUT.

1.containing only data showing:

```

./a.out
kashyap@kash ~/cpp/LAB_4$ g++ exe1.cpp
kashyap@kash ~/cpp/LAB_4$ ./a.out
please enter your phone number
1
please enter your name without space
kashyap
please enter your phone address sepreted by ',' and without space
sanjivani
please enter your phone number
2
please enter your name without space
gaurav
please enter your phone address sepreted by ',' and without space
gayatrinagar
for modify the data please enter '0' and for showing the data please enter '1'
1
enter'0' if you have to see data by your name or enter '1' for see data by number
0
plese enter your name
kashyap
mr/mrs kashyap's data is given below
phone number :1
address :sanjivani
for modify the data please enter '0' and for showing the data please enter '1'
1
enter'0' if you have to see data by your name or enter '1' for see data by number
11
it is not matched with your input
for modify the data please enter '0' and for showing the data please enter '1'
1
enter'0' if you have to see data by your name or enter '1' for see data by number
1
plese enter your phone number
2
phone number: 2's data is given below
name: :gaurav
address :gayatrinagar
for modify the data please enter '0' and for showing the data please enter '1'
-

```

2.containing modification of data:

```
./a.out
kashyap@kash ~/cpp/LAB_4$ g++ exe1.cpp
kashyap@kash ~/cpp/LAB_4$ ./a.out
please enter your phone number
1
please enter your name without space
vandan
please enter your phone address sepreted by ',' and without space
sanjivani
please enter your phone number
2
please enter your name without space
harsh
please enter your phone address sepreted by ',' and without space
viramgaam
for modify the data please enter '0' and for showing the data please enter '1'
1
enter '0' if you have to see data by your name or enter '1' for see data by number
1
plese enter your phone number
2
phone number: 2's data is given below
name: :harsh
address :viramgaam
for modify the data please enter '0' and for showing the data please enter '1'
0
for modify by mane enter '0' and by phone number enter '1'
0
please enter your name here
harsh
please enter name to be modified
harshm
please enter phone number to be modified
3
plesase enter address to be modifies sepreted by','
nadiyad
name :harshm
phone number :3
address :nadiyad
for modify the data please enter '0' and for showing the data please enter '1'
-
```