**Aim:**

To write a program to input the various segments of Telephone Number separately using a structure and accept the username and user code in a telephone directory then perform the Search or Display function according to user’s choice.

**Source Code:**

#include<iostream.h>

#include<conio.h>

struct phone\_seg

{

int a\_code;

int ext\_code;

int phone\_no;

};

int size(char variable[]);

struct record

{

int mem\_no;

char name[12];

phone\_seg phone;

}user[5];

int compare\_algo\_txt(char intake[],char intake2[],int len\_1);

void main()

{

clrscr();

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

{

cout<<"\n Enter the Member no. of the User "<<i+1<<" : ";

cin>>user[i].mem\_no;

cout<<" Enter the Name of the User "<<i+1<<" : ";

cin>>user[i].name;

cout<<" Enter The each Segment of No :\n ";

cout<<" Enter the area code :";

cin>>user[i].phone.a\_code;

cout<<" Enter the Extension code :";

cin>>user[i].phone.ext\_code;

cout<<" Enter the user no. :";

cin>>user[i].phone.phone\_no;

clrscr();

}

clrscr();

cout<<"\n Chose From The Options Given Below to Proceed ";

cout<<"\n 1.To Display All Records ";

cout<<"\n 2.To Search And Display By User Name ";

int opt;

cout<<"\n->";

cin>>opt;

if(opt==1)

{

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

{

cout<<"\n\n The Member no. of the User "<<i+1<<" : ";

cout<<user[i].mem\_no;

cout<<"\n The Name of the User "<<i+1<<" : ";

cout<<user[i].name;

cout<<"\n The Phone Number of User as per each Segment ";

cout<<"\n Enter the area code :";

cout<<user[i].phone.a\_code;

cout<<"\n The Extension code :";

cout<<user[i].phone.ext\_code;

cout<<"\n The user no. :";

cout<<user[i].phone.phone\_no;

}

}

if(opt==2)

{ cout<<"\n Name of the User you want to search for ";

char var2[12];

cin>>var2;

int flag=0;

int rem1=0;

rem1=size(var2);

int rem2;

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

{

rem2=0;

rem2=size(user[i].name);

if(rem2==rem1)

{

int call;

call=compare\_algo\_txt(var2,user[i].name,rem2);

if(call==0)

{

cout<<"\n\n The Member no. of the User "<<i+1<<" : ";

cout<<user[i].mem\_no;

cout<<"\n The Phone Number of User as per each Segment ";

cout<<"\n Enter the area code :";

cout<<user[i].phone.a\_code;

cout<<"\n The Extension code :";

cout<<user[i].phone.ext\_code;

cout<<"\n The user no. :";

cout<<user[i].phone.phone\_no;

flag=1;

}

}

}

if(flag==0)

{ cout<<"\n ERROR :match not found ";

}

}

getch();

}

int size(char variable[])

{

for(int sizer=0;variable[sizer]!='\0';++sizer);

return(sizer);

}

int compare\_algo\_txt(char intake[],char intake2[],int len\_1)

{

int eye=0;

for(int cmpr=0;cmpr<len\_1;++cmpr)

{

if(intake[cmpr]!=intake2[cmpr])

{ eye=1;

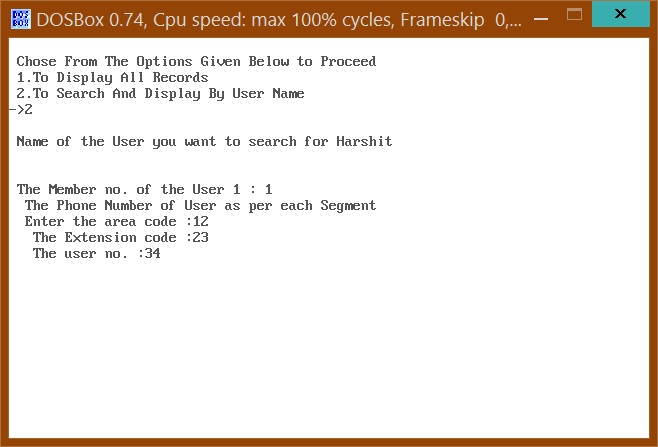
}

}

return(eye);

}

**Output :**

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