**Aim:**

To write a program to Input the country Name, Capital and per Capita Income and then perform a Search according to user preference

**Source Code:**

#include<iostream.h>

#include<conio.h>

#include<string.h>

struct earth

{

char cntry\_name[15];

char cpitl\_name[15];

float cpitl\_inc;

}p[5];

// To Calculate Length Of string

int size(char variable[])

{

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

return(sizer);

}

// To Compare two strings

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);

}

void main()

{

clrscr();

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

{

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

cin>>p[i].cntry\_name;

cout<<" Enter the name of the Capital of the Country "<<i+1<<":";

cin>>p[i].cpitl\_name;

cout<<" Enter the Per Capita Income of the Country "<<i+1<<":";

cin>>p[i].cpitl\_inc;

}

clrscr();

cout<<" \n Enter An option from the given choices ->";

cout<<" \n 1. To Search by the name of the Country ";

cout<<" \n 2. To Search by the name of the Capital ";

cout<<"\n-> ";

int var1;

cin>>var1;

char var2[15];

int flag;

if(var1==1)

{

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

cin>>var2;

int flag=0;

int rem1=0;

rem1=size(var2);

int rem2;

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

{

rem2=0;

rem2=size(p[i].cntry\_name);

if(rem2==rem1)

{

int call;

call=compare\_algo\_txt(var2,p[i].cntry\_name,rem2);

if(call==0)

{

cout<<"\n The name of the Capital is :";

cout<<p[i].cpitl\_name;

cout<<"\n The per Capita income is :";

cout<<p[i].cpitl\_inc;

flag=1;

}

}

}

if(flag==0)

{

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

}

}

if(var1==2)

{

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

cin>>var2;

int flag=0;

int rem1=0;

rem1=size(var2);

int rem2;

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

{

rem2=0;

rem2=size(p[i].cpitl\_name);

if(rem2==rem1)

{

int call;

call=compare\_algo\_txt(var2,p[i].cpitl\_name,rem2);

if(call==0)

{

cout<<"\n The name of the Country is :";

cout<<p[i].cntry\_name;

cout<<"\n The per Capita income is :";

cout<<p[i].cpitl\_inc;

flag=1;

}

}

}

if(flag==0)

{

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

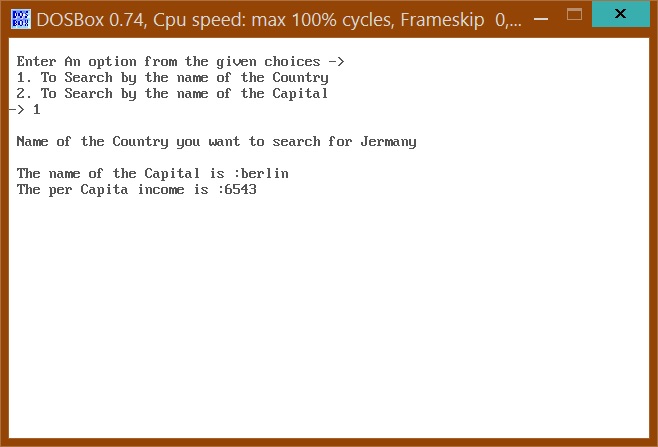
}

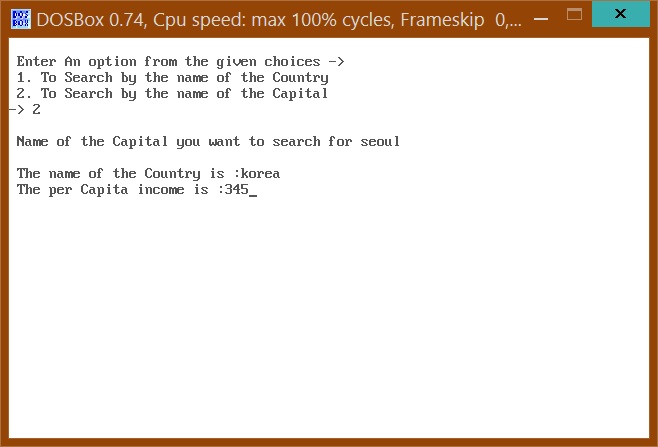
}

getch();

}

**Output :**



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