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Name : Amit Bandu SwamiRoll No. 2221018

Assignment No. 03

Title : Student Database

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//Program #include<iostream> #include<string.h> using namespace std; class student

{

char name[10]; int roll\_no;

int age; int marks;

char branch[10]; public:

void input()

{

cout<<"Enter name:"<<endl; cin>>name;

cout<<"Enter roll no:"<<endl; cin>>roll\_no; cout<<"Age:"<<endl; cin>>age;

cout<<"Enter marks:"<<endl; cin>>marks;

cout<<"Enter branch:"<<endl; cin>>branch;

}

void output();

friend void search(student \*); friend void remove(student \*); friend void update(student \*); student();

};

student::student()

{

strcpy(name,"-99"); roll\_no=-99;

age=-99; marks=-99;

strcpy(branch,"-99");

}

void search(student \*S)

{

int i;

char name[10]; int flag=0;

cout<<"\nEnter the name to search:"; cin>>name;

for(i=0;i<=4;i++)

{

if(strcmp(name,S[i].name)==0)

{

cout<<"Found the Information in database"<<endl; flag=1;

break;

}

}

if(flag==0)

{

cout<<"No Information with respect to name entered"<<endl;

}

}

void remove(student \*S)

{

int i;

char name[10]; int flag=0; student temp;

cout<<"\nEnter the name to delete:"; cin>>name;

for(i=0;i<=4;i++)

{

if(strcmp(name,S[i].name)==0)

{

cout<<"Found the Information in database"<<endl; strcpy(S[i].name,temp.name); S[i].roll\_no=temp.roll\_no;

S[i].age=temp.age; S[i].marks=temp.marks; strcpy(S[i].branch,temp.branch); flag=1;

break;

}

}

if(flag==0)

{

cout<<"No Information with resepct to name entered"<<endl;

}

}

void update (student \*S)

{

int i;

char name[10]; int flag=0;

cout<<"Enter the name to search:"<<endl; cin>>name;

for(i=0;i<=4;i++)

{

if(strcmp(name,S[i].name)==0)

{

cout<<"Found the Information in database"<<endl; cout<<"Enter the new name for this"<<endl; cin>>S[i].name;

flag=1; break;

}

}

if(flag==0)

{

cout<<"No Information with resepct to name entered"<<endl;

}

}

void student::output()

{

if(age!=-99)

cout<<"\n"<<name<<" "<<roll\_no<<" "<<age<<" "<<marks<<" "<<branch;

}

int main()

{

int i; int ch;

student T[5]; while(1)

{

cout<<"\n MENU"<<endl; cout<<"1. Add Information"<<endl;

cout<<"2. Display Information"<<endl;

cout<<"3. Search Information"<<endl; cout<<"4. Delete Information"<<endl; cout<<"5. Update information"<<endl; cout<<"6. Exit"<<endl;

cout<<"\n Enter choice:"<<endl; cin>>ch;

switch(ch)

{

case 1:

for(i=0; i<=4; i=i+1) T[i].input();

break;

case 2: cout<<"\nHere is the information"; for(i=0; i<=4; i=i+1)

T[i].output(); break;

case 3: search(T); break;

case 4: remove(T); break;

case 5: remove(T); (T);

break; default:

exit(0);

}

}

}

/\* Output MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice: 1

Enter name: Harry

Enter roll no: 01

Age:

18

Enter marks: 93

Enter branch: IT

Enter name: Lily

Enter roll no: 02

Age:

18

Enter marks: 90

Enter branch: IT

Enter name: John

Enter roll no: 03

Age:

17

Enter marks: 80

Enter branch: CS

Enter name: Steve

Enter roll no: 04

Age:

18

Enter marks: 85

Enter branch: CS

Enter name: David

Enter roll no: 05

Age:

17

Enter marks: 87

Enter branch:

IT MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice:

2

Here is the information Harry 1 18 93 IT

Lily 2 18 90 IT

John 3 17 80 CS

Steve 4 18 85 CS

David 5 17 87 IT MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice:

3

Enter the name to search:David Found the Information in database MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice:

4

Enter the name to delete:Lily Found the Information in database MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice:

5

Enter the name to delete:John Found the Information in database MENU

1. Add Information
2. Display Information
3. Search Information
4. Delete Information
5. Update information
6. Exit

Enter choice: 6

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