Program :

#include<iostream>

#include<fstream>

using namespace std;

void create();

void display();

int search(int roll);

void add();

void del();

void modify();

int rollno;

char name[10];

char dept[10];

fstream f,r,temp;

int main()

{

int x=1,ch;

while(x)

{

cout<<"\nEnter your choice what you want to perform:-\n1. Create\n2.

Display\n3. Add\n4. Modify\n5. Delete\n6. Exit\n";

cout<<"Enter the choice: ";

cin>>ch;

switch(ch)

{case 1:

create();

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break;

case 2:

display();

break;

case 3:

add();

break;

case 4:

modify();

break;

case 5:

del();

break;

case 6:

x=0;

break;

default:

cout<<"\nPLease enter correct choice!\n";

break;

}

}

}

void modify() {

int x,roll;

cout<<"Enter roll no: ";

cin>>roll;

x = search(roll);

if(x==1) {

f.open("data.txt",ios::in);

temp.open("temp.txt",ios::out);

f>>rollno>>name>>dept;

while(!f.eof()) {

if(roll == rollno) {

cout<<"Enter name : ";

cin>>name;

cout<<"Enter the department: ";

cin>>dept;

temp<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

f>>rollno>>name>>dept;

continue;

}

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temp<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

f>>rollno>>name>>dept;

}

f.close(); temp.close();

f.open("data.txt",ios::out);

temp.open("temp.txt",ios::in);

temp>>rollno>>name>>dept;

while(!temp.eof()) {

f<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

temp>>rollno>>name>>dept;

}

f.close();

temp.close();

}

else{

cout<<"\nRecord not exist!\n";

}

}

void del()

{

int x,roll;

cout<<"Enter roll no to delete: ";

cin>>roll;

x = search(roll);

if(x==1) {

f.open("data.txt",ios::in);

temp.open("temp.txt",ios::out);

f>>rollno>>name>>dept;

while(!f.eof()){

if(roll != rollno) {

temp<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

}

f>>rollno>>name>>dept;

}

f.close();

temp.close();

f.open("data.txt",ios::out);

temp.open("temp.txt",ios::in);

temp>>rollno>>name>>dept;

while(!temp.eof()) {

f<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

temp>>rollno>>name>>dept;

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}

f.close();

temp.close();

}

else {

cout<<"

\nRecord not exist!

\n";

}

}

void add()

{

int x,i,roll;

cout<<"Enter roll no: ";

cin>>roll;

x = search(roll);

if(x==1) {

cout<<"

\nRecord already exist!

\n";

}

else {

f.open("data.txt",ios::app);

cout<<"Enter name: ";

cin>>name;

cout<<"and department: ";

cin>>dept;

rollno = roll;

f<<rollno<<"

\t"<<name<<"

\t"<<dept<<"

\n";

f.close();

}

}

int search(int roll) {

r.open("data.txt",ios::in);

while(!r.eof()) {

r>>rollno>>name>>dept;

if(roll == rollno) {

r.close();

return 1;

}

}

r.close();

return 0;

}

void create()

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1

{

int n,i;

f.open("data.txt",ios::out);

cout<<"How many records you want to enter:-";

cin>>n;

for(i=0;i<n;i++) {

cout<<"\nEnter roll no: ";

cin>>rollno;

cout<<"Enter the name: ";

cin>>name;

cout<<"Enter the department: ";

cin>>dept;

f<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

}

f.close();

}

void display()

{

f.open("data.txt",ios::in);

cout<<"Roll No"<<"\t"<<"Name"<<"\t"<<"Department"<<"\n";

f>>rollno>>name>>dept;

while(!f.eof()) {

cout<<rollno<<"\t"<<name<<"\t"<<dept<<"\n";

f>>rollno>>name>>dept;

}

f.close();

}

Output :

Enter your choice what you want to perform:-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 1

How many records you want to enter:-3

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Enter roll no: 1

Enter the name: F

Enter the department: IT

Enter roll no: 2

Enter the name: G

Enter the department: COMP

Enter roll no: 3

Enter the name: J

Enter the department: AI

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 2

Roll No Name Department

1 F IT

2 G COMP

3 J AI

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 3

Enter roll no: 6

Enter name: K

and department: MECHANICAL

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

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6. Exit

Enter the choice: 4

Enter roll no: 4

Record not exist!

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 4

Enter roll no: 2

Enter name : D

Enter the department: SCIENCE

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 5

Enter roll no to delete: 1

Enter your choice what you want to perform:

-

1. Create

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 2

Roll No Name Department

2 D SCIENCE

3 J AI

6 K MECHANICAL

Enter your choice what you want to perform:

-

1. Create

10

4

2. Display

3. Add

4. Modify

5. Delete

6. Exit

Enter the choice: 6

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