OOP(CS-106)

FINAL PAPER

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Coure code:

CS(106)

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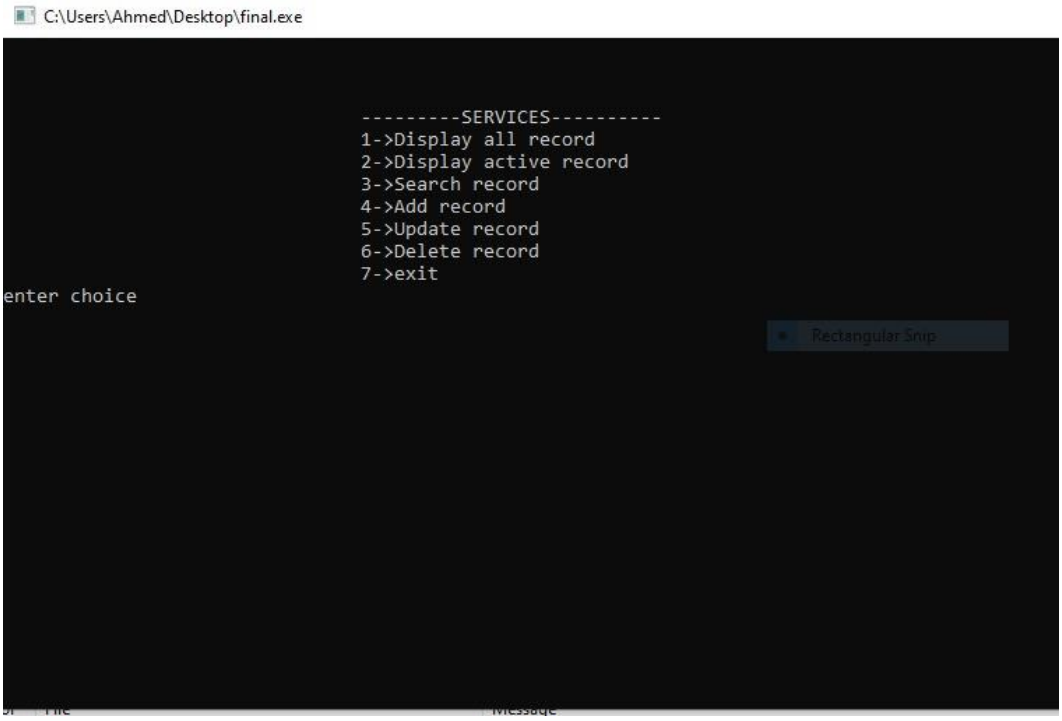
```
#include<iostream>
#include<fstream>
using namespace std;
class teacher
{
   private:
      int teacher_id;
   string teacher_name;

public:
   string roll;
   string name;
   string attendence;
   teacher()
   {

   }
      void setter(int i, string
n)
      {
         teacher_id=i;
         teacher_name=n;
```

```
        }
        int getter1()
        {
            return this-
>teacher_id;
        }
        string getter2()
        {
            return this-
>teacher_name;
        }

    void menu()
{
    int op;
    cout<<"\n\n\n\t\t\t\t--------
-SERVICES----------"<<endl;
    cout<<"\t\t\t\t1->Display all
record"<<endl;
    cout<<"\t\t\t\t2->Display
active record"<<endl;
```

```
   cout<<"\t\t\t\t3->Search
record"<<endl;
   cout<<"\t\t\t\t4->Add
record"<<endl;
   cout<<"\t\t\t\t5->Update
record"<<endl;
   cout<<"\t\t\t\t6->Delete
record"<<endl;
   cout<<"\t\t\t\t7-
>exit"<<endl;
cout<<"enter choice"<<endl;
cin>>op;
   switch(op)
   {
      case 1:
         displayAll();
         break;
      case 2:
            display_active();
            break;
            case 3:
               search();
```

```
                    break;
                    case 4:
                       add();
                       break;
                    case 5:
                           update();
                           break;
                       case 6:

    Delete();
                                 break;
                                 case 7:

    exit(0);

    default:

    cout<<"invalid op"<<endl;


    }
}
```




```
void displayAll()
    {
        ifstream file;
        file.open("rec.txt");
        while(!file.eof())
        {

    file>>roll>>name>>attendence;
            cout<<roll<<"
"<<name<<"  "<<attendence<<endl;
            getline(file,roll);
```

```
        }
        file.close();
    }
    void display_active()
    {
        ifstream file;
        file.open("rec2.txt");
        while(!file.eof())
        {

    file>>roll>>name>>attendence;
        cout<<roll<<"
"<<name<<"  "<<attendence<<endl;
        getline(file,roll);
        }
        file.close();
    }
    void search()
    {
        int st_id;
        cout<<"enter id to find
record"<<endl;
```

```
        cin>>st_id;


           ifstream file2;
           file2.open("rec.txt");

while(!file2.eof()){

              if(st_id == 4)


   file2>>roll>>name>>attendence
;
              cout<<roll<<"
"<<name<<"  "<<attendence<<endl;


   }
   file2.close();
   }
   void add()
   {
```

```
        cout<<"enter roll"<<endl;
        cin>>roll;
        cout<<"enter name"<<endl;
        cin>>name;
        cout<<"enter
attendence"<<endl;
        cin>>attendence;
        ofstream file;

    file.open("rec.txt",ios::app)
;
        file<<roll<<"  "<<name<<"
"<<attendence<<endl;
        file.close();
    }
    void update()
    {int id;
        cout<<"enter id to update
record"<<endl;
        cin>>roll;
        ifstream file3;
        file3.open("rec.txt");
```

```
        while(!file3.eof())
        {
            if(id==3)
            cout<<"enter
name"<<endl;
            cin>>name;
            cout<<"enter
attendence"<<endl;
            cin>>attendence;

      file3>>name>>attendence;
            cout<<roll<<"
"<<name<<"  "<<attendence<<endl;

        }
        file3.close();
    }
    Delete()
    {
        cout<<"enter roll"<<endl;
        cin>>roll;
        ifstream file;
```

```
        file.open("rec.txt");
        delete file;
        file.close();
    }
};
class course:public teacher
{
  private:
  static int course_code;
  string course_title;
  public:
  course()
  {

  }
  void set(int c, string ct)
  {
   course_code=c;
   course_title=ct;
  }
   int get1()
   {
```

```
        return this->course_code;
      }
      string get2()
      {
       return this->course_title;
      }

};
class student:public teacher
{
   private:
      int student_roll;
      string student_name;
      string student_course;
      public:
      student()
      {

      }
      void set2(int r, string
sn, string sc)
      {
```

```
            student_roll=r;
            student_name=sn;
            student_course=sc;
        }
        int get3()
        {
            return this-
>student_roll;
        }
        string get4()
        {
            return this-
>student_name;
            return this-
>student_course;
        }

};


int main()
{
```

```
 int x,y;
string z,v;
   teacher t;
   t.menu();
   course c;
   student s;
}
```

```
enter choice
1
course  :  OOP
roll:  Name:  Attendence
1  ali  p
2  ahmad  p
3  hamza  p
4  ifraz  A
5  usama  A
6  usman  p
7  muneeb  P
8  rafay  P
9  shafay  P
10  Azaz  P12
  shiekh  p  Azaz  P12
```