***SOURCE CODE:***

# include <iostream>

# include <fstream>

# include <string>

using namespace std;

void Get\_Student\_Data();

void Input\_Data();

//START OF MAIN BODY

int main()

{

//INTRODUCTION

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cout<<"..............................................................................................."<<endl;

cout<<" ........................................................................................ "<<endl;

cout<<" ................................................................................ "<<endl;

cout<<" "<<endl;

cout<<" PRESENTED BY "<<endl;

cout<<" Emad Tariq "<<endl;

cout<<" Ammarah Ali "<<endl;

cout<<" Ahsan Naeem "<<endl;

cout<<" "<<endl;

cout<<" ................................................................................ "<<endl;

cout<<" ........................................................................................ "<<endl;

cout<<"..............................................................................................."<<endl<<endl;

//START OF THE PROGRAM

//asking username and password for security of the system and data

string username="bahria22";

string password="bimcs";

string input1;

string input2;

cout<<"ENTER USERNAME AND PASSWORD FOR ACCESSING THE SYSTEM"<<endl<<endl;

cout<<"USERNAME=";

cin>>input1;

cout<<"PASSWORD=";

cin>>input2;

if(username==input1 && password==input2)

{

//SELECTION OF FUNCTION OR OF TASK WHICH IS GOING TO BE PERFORMED

char select;

string fileName;

cout<<endl<<"PRESS E FOR NEW ADMISSION OR PRESS F FOR VIEWING STUDENT DATA"<<endl;

cin>>select;

// USING IF ELSE TO SPECIFY THE CONDITION

if(select=='E' || select=='e')

{

Input\_Data(); //ffunction calling which is described below and already mentioned above

}

else if (select=='F' || select=='f')

{

cout<<"To Get Info"<<endl;

Get\_Student\_Data(); // function calling which is described below and already mentioned before main

}

else

{

cout<<"Please Enter Correct Option..!!";

}

}

else{

cout<<"INCORRECT CREDINTELS";

}

return 0;

}

//END OF MAIN BODY

//START OF FIRST FUNCTION

//FUNCTION FOR STORING STUDENT DATA

void Input\_Data()

{

//USING ARRAY TO STORE THE DATA OF SPECIFIC AMOUNT OF STUDENTS

char student\_data[3000];

string fileName,temp;

getline(cin,temp);

//USING FILING TO STORES THAT ARRAY INTO A PARTICULAR FILE

cout<<"......................."<<endl;

cout<<"Enter Student Roll#=";

getline(cin,fileName);

ofstream rw(fileName.c\_str()); // writes data out to a data file.

//HERE WE CALLED FILE NAME AS FILENAME.C

//STORING NAME OF STUDENT

cout<<"Enter Student name=";

cin.getline(student\_data, 2000);

rw<<"Name : "<<student\_data<<endl;

//STORING FATHERS NAME OF STUDENT

cout<<"Enter The father name=";

cin.getline(student\_data, 2000);

rw<<" Father Name : "<<student\_data<<endl;

//STUDENTS CNIC

cout<<"Enter the CNIC=";

cin.getline(student\_data, 2000);

rw<<"CNIC :"<<student\_data<<endl;

//STUDENTS DATE OF BIRTH

cout<<"Enter the date of birth=";

cin.getline(student\_data, 2000);

rw<<"Date of birth:"<<student\_data<<endl;

//STORING ADDRESS OF STUDENT

cout<<"Enter Address =";

cin.getline(student\_data, 2000);

rw<<"Address :"<<student\_data<<endl;

//STUDENTS CONTACT NUMBER

cout<<"Enter Contact No =";

cin.getline(student\_data, 2000);

rw<<"Phone :"<<student\_data<<endl;

//STUDENTS RELIGION

cout<<"Enter the religion =";

cin.getline(student\_data, 2000);

rw<<"religion :"<<student\_data<<endl;

//STUDENTS BLOOD GROUP

cout<<"Enter the blood group =";

cin.getline(student\_data, 2000);

rw<<"blood group :"<<student\_data<<endl;

//TOTAL MARKS IN LAST CLASS WHICH HE PASSED

cout<<"Total marks=";

cin.getline(student\_data, 2000);

rw<<"Total last class marks= :"<<student\_data<<endl;

//OBTAINED MARKS IN LAST CLASS

cout<<"Marks Obtained =";

cin.getline(student\_data, 2000);

rw<<"Marks Obtained:"<<student\_data<<endl;

//STUDENT EMAIL ADRESS

cout<<"Enter the email address =";

cin.getline(student\_data, 2000);

rw<<"email address :"<<student\_data<<endl;

//STUDENT ADMISSION DATE FROM WHEN HIS REGISTRATION IS COMPLETED

cout<<"Enter the admission date =";

cin.getline(student\_data, 2000);

rw<<"Admission date :"<<student\_data<<endl;

//FOR WHICH CLASS the student IS TAKING ADMISSION

cout<<"class=";

cin.getline(student\_data, 2000);

rw<<"class :"<<student\_data<<endl;

//FEE PER MONTH

cout<<"Enter Fees Per Month=";

cin.getline(student\_data, 2000);

rw<<"Fees Per Month=:"<<student\_data<<endl;

//MESSAGE

cout<<endl<<"Data recorded successfull"<<endl<<endl;

//FILING CLOSE

//FUNCTION CLOSE

rw.close();

//DATA STORATION BODY COMPLETED

// AGAIN REPEATING THAT IF ELSE BODY TO CHECK WHETHER IF

//ADMIN IS GOING TO ENTER ANOTHER STUDENT OR ELSE HE WANTS

//TO VIEW THE RECORD OF THE PREVIOUS STUDENT HE SAVED

char select;

cout<<"PRESS E FOR NEW ADMISSION OR PRESS F FOR VIEWING STUDENT DATA"<<endl;

cin>>select;

if(select=='E' || select=='e')

{

Input\_Data(); //ffunction calling

}

else if (select=='F' || select=='f')

{

cout<<"To Get Info"<<endl;

Get\_Student\_Data(); // function calling

}

else{

cout<<"Please Enter Correct Option..!!";

}

}

//START OF SECOND FUNCTION

void Get\_Student\_Data()

{

//CALLING THAT ABOVE FILE AGAIN TO READ DATA FROM IT

ifstream rw; // that reads in data from a data file

string lines;

string fileName,temp ;

getline(cin,temp);

cout<<"......................."<<endl;

//ROLL NUMBER WILL ENTERED TO MATCH WITH THE DATA STORED RECENTLY IN ABOVE FILE

cout<<"Enter Student Roll to find#=";

getline(cin,fileName);

//OPENING FILE TO READ DATA

rw.open(fileName.c\_str());

//NOW THAT IF ELSE CHECK WHETHER THE ENTERD ROLL NUMBER MATCHED OR NOT

//IF ROLL NUMBER MATCHED THEN PRINT THAT ROLL NUMBERS WHOLE DATA HERE

if(rw.is\_open())

{

while (getline(rw,lines))

{

cout<<lines<<endl<<endl<<endl;

}

}

else{

cout<<"NO STUDENT FOUND";

}

rw.close(); //FILE CLOSED

cout<<"THANK YOU!";

}

//END OF SECOND FUNCTION

//NOW WE PUT ALL THESE FUNCTIONS IN ABOVE MAIN BODY TO PERFROM TASKS