**ASSIGNMENT 3 OOPS**

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/\*PROBLEM STATEMENT: educational institution system

Design an educational Institution that maintains a database of all staff members where the database is

segregated into a number of classes having hierarchical relationships. Define all classes with suitable

data members and required member functions to build the database and fetch individual details .\*/

#include<iostream>

using namespace std;

class staff

{

protected:

string name,dept;

long int staff\_id;

public:

void accept(){

cout<<"\nEnter name:";

cin>>name;

cout<<"Enter department:";

cin>>dept;

cout<<"Enter ID:";

cin>>staff\_id;

}

void display(){

cout<<"\nName:"<<name;

cout<<"\nDepartment:"<<dept;

cout<<"\nStaff ID:"<<staff\_id;

}

};

class teacher:public staff

{

string sub;

int exp;

public:

void accept1();

void display1();

};

class SupportStaff : public staff {

string role;

string shift;

public:

void accept2();

void display2();

};

void SupportStaff::accept2() {

staff::accept();

cout << "Enter Role: ";

cin>>role;

cout << "Enter Shift (Morning/Evening): ";

cin>>shift;

}

void SupportStaff:: display2() {

staff::display();

cout << "\nRole: " << role;

cout << "\nShift: " << shift;

}

void teacher::accept1(){

staff::accept();

cout<<"Enter subject:";

cin>>sub;

cout<<"Enter experience(in years):";

cin>>exp;

}

void teacher::display1(){

staff::display();

cout<<"\nSubject:"<<sub;

cout<<"\nExperience(in years):"<<exp;

}

int main(){

int n;

cout<<"Enter no. of teachers:";

cin>>n;

teacher t1[n];

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

cout<<"\nEnter details for teacher "<<i+1<<":";

t1[i].accept1();

}

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

cout<<"\n------Teachers details------";

t1[i].display1();

}

int m;

cout<<"\n";

cout<<"\nEnter no. of Support staff:";

cin>>m;

SupportStaff s[m];

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

cout<<"\nEnter details for Support staff "<<i+1<<":";

cout<<"\n";

s[i].accept2();

}

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

cout<<"\n------Support staff details------";

s[i].display2();

}

return 0;

}

