OOP TUTORIAL 3

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CODE:

```cpp
#include<iostream>
#include<string>
using namespace std;
// Base class staff
class staff
{
protected:
 string name,dept;
 int staff_ID;
public:
 void accept();
 void display();
};
// teacher derived class
class teacher:public staff
{
      string subject;
      int exp;
public:
      void accept1();
      void display1();
};
// staff derived class
class support:public staff
{
      string expertise;
      int age;
public:
      void accept2();
      void display2();
};
// accept definition
void staff::accept(){
      cout<<"Enter name: ";
      cin>>name;
      cout<<"Enter department: ";
      cin>>dept;
      cout<<"Enter the staff ID: ";
      cin>>staff_ID;
}
// display definition
void staff::display(){
      cout<<"Name:"<<name<<endl;
      cout<<"Department:"<<dept<<endl;
      cout<<"Staff ID:"<<staff_ID<<endl;
}
```

```cpp
//teacher accept1 definition
void teacher::accept1(){
    accept();
    cout<<"Enter subject: ";
    cin>>subject;
    cout<<"Enter experience: ";
    cin>>exp;
}
// teacher display1 defintion
void teacher::display1(){
    display();
    cout<<"Subject:"<<subject<<endl;
    cout<<"Experience:"<<exp<<endl;
}
// support accept2 definiton
void support::accept2(){
    accept();
    cout<<"Enter Expertise: ";
    cin>>expertise;
    cout<<"Enter age: ";
    cin>>age;
}
// support display2 definition
void support::display2(){
    display();
    cout<<"Expertise:"<<expertise<<endl;
    cout<<"Age:"<<age<<endl;
}
int main(){
    // array of object for teacher
    int n1;
    cout<<"Enter number of teacher:";
    cin>>n1;
    teacher obj3[n1];
    for(int i=0;i<n1;i++){
        cout<<"Teacher no:"<<i+1<<"\n";
        obj3[i].accept1();
    }
    for(int i=0;i<n1;i++){
        cout<<"Teacher no:"<<i+1<<"\n";
        obj3[i].display1();
    }
    //array of object for support
    int n2;
    cout<<"Enter number of support staff:";
    cin>>n2;
    support obj4[n2];
    for(int i=0;i<n2;i++){
        cout<<"Support staff no:"<<i+1<<"\n";
```

```
            obj4[i].accept2();
            }
    for(int i=0;i<n2;i++){
        cout<<"Support staff no:"<<i+1<<"\n";
        obj4[i].display2();
            }
    return 0;
}
```

OUTPUT:
Enter number of teacher:2
Teacher no:1
Enter name: Varad
Enter department: comp
Enter the staff ID: 121
Enter subject: ds
Enter experience: 2
Teacher no:2
Enter name: Ved
Enter department: IT
Enter the staff ID: 122
Enter subject: oop
Enter experience: 3
Teacher no:1
Name:Varad
Department:comp
Staff ID:121
Subject:ds
Experience:2
Teacher no:2
Name:Ved
Department:IT
Staff ID:122
Subject:oop
Experience:3
Enter number of support staff:2
Support staff no:1
Enter name: Sumegh
Enter department: entc
Enter the staff ID: 123
Enter Expertise: 4
Enter age: 35
Support staff no:2
Enter name: Mrunal
Enter department: mech
Enter the staff ID: 124
Enter Expertise: 2
Enter age: 32

```
Support staff no:1
Name:Sumegh
Department:entc
Staff ID:123
Expertise:4
Age:35
Support staff no:2
Name:Mrunal
Department:mech
Staff ID:124
Expertise:2
Age:32
```