#### **PROGRAMMING LAB**

#### **BLESSY P ROY**

#### MCA S1

#### **TKM20MCA-2014**

### Question

Create a class 'Nurses' with data members id,name,salary, Qualification,covid duty [yes,No] dept, and constructors to initialize the data member create. Another class 'Doctors' with its own data members -name, specialisation,salar,covid duty,[yes,no], dept and constructors initialize these data members create another class hospital that inherit the above two classes with constructors for initializing attributes of members and it has an unique hospital id. All classes include display functions to display all the data members create an instance of hospital showing the list of doctors and nurses engaged in covid duty.

# **Algorithm**

- Step 1: Create the class Nurses with data and Doctors with data.
- Step 2:Create another class Hospital with data.
- Step 3:Hospital class Inherit the Nurse and Doctor class with a constructor.
- Step 4:Initialize the attribute of members and its unique id.
- Step 5:Display all the class data.
- Step 6:Display list of doctors and nurses engaged in covid duty.

### **PROGRAM**

```
class Nurses:
  Nurse id = "
  Nurse_Name = "
  Nurse Salary = "
  Nurse Qualification = "
  Nurse Covid duty = "
  Nurse Department = "
  def
__init__(self,Nurse_id,Nurse_Name,Nurse_Salary,Nurse_Qualification,Nurse_Covid_duty,N
urse Department):
    self.Nurse id = Nurse id
    self.Nurse Name = Nurse Name
    self.Nurse Salary = Nurse Salary
    self.Nurse Qualification = Nurse Qualification
    self.Nurse_Covid_duty = Nurse_Covid_duty
    self.Nurse_Department = Nurse_Department
  def display(self):
    print("\t\tDisplay Nurses class")
    print("ID - "+self.Nurse id)
    print("Nurse_Name - "+self.Nurse_Name)
    print("Nurse_Salary - "+self.Nurse_Salary)
    print("Nurse_Qualification - "+self.Nurse_Qualification)
    print("Covid Duty(Yes/No) - "+self.Nurse Covid duty)
```

```
print("Nurse_Department - "+self.Nurse_Department)
```

```
class Doctors:
  Doctor Name = "
  Doctor Specialization = "
  Doctor Salary = "
  Doctor Covid duty = "
  Doctor Dept = "
  def
  init (self,Doctor Name,Doctor Specialization,Doctor Salary,Doctor Covid duty,Doctor
_Dept):
    self.Doctor Name = Doctor Name
    self.Doctor_Specialization = Doctor_Specialization
    self.Doctor Salary = Doctor Salary
    self.Doctor Covid duty = Doctor Covid duty
    self.Doctor Dept = Doctor Dept
  def display(self):
    print("\t\tDisplay Doctors class")
    print("Doctor Name - "+self.Doctor Name)
    print("Doctor Specialization - "+self.Doctor Specialization)
    print("Doctor Salary - "+self.Doctor Salary)
    print("Covid Duty(Yes/No) - "+self.Doctor_Covid_duty)
    print("Department - "+self.Doctor Dept)
```

```
class Hospital(Nurses, Doctors):
  hospital id = "
  def
__init__(self,hospital_id,Nurse_id,Nurse_Name,Nurse_Salary,Nurse_Qualification,Nurse_Co
vid duty, Nurse Department, Doctor Name, Doctor Specialization, Doctor Salary, Doctor Co
vid duty, Doctor Dept):
    self.hospital id = hospital id
Nurses. init (self, Nurse id, Nurse Name, Nurse Salary, Nurse Qualification, Nurse Covid
duty, Nurse Department)
Doctors. init (self,Doctor Name,Doctor Specialization,Doctor Salary,Doctor Covid dut
y,Doctor Dept)
  def display(self):
    print("\t\tDisplay Hospital class")
    print("Hospital id - "+self.hospital id)
    Nurses.display(self)
    Doctors.display(self)
obj1 = Hospital('100','1','Blessy','13000','Bsc','No','Health','Steve','Skin','100000','No','Health')
obj1.display()
print("\nDifferent Hospital\n")
obi2 =
Hospital('101','2','Henry','80000','Bsc','Yes','Health','Mary','Brain','500000','Yes','Health')
obj2.display()
```

## **OUTPUT**

