

GANGA KRISHNAN.G

ROLL NO : 18

S2 MCA

REGISTER NUMBER:TKM20MCA-2018

AIM:

Create a class 'Nurses' with data members id,name,salary,qualification,covid duty(yes,no),dept and constructors to initialize the data members.create another class 'Doctors' with its own data members name,specialization,salary,covid duty(yes,no),dept and constructors to initialize these data members.create another class Hospital that inherit the above classes with constructors for initializing attributes of members and it has a unique hospital id.All classes include display functions to display all data members.create an instance of hospital showing the list of doctors and nurses engaged in covid duty

ALGORITHM:

Step 1 : start

Step 2 : create class Nurses with datamembers members id,name,salary,qualification,covid duty(yes,no),dept

Step 3 : create constructors to initialize datamembers and functions to display datamembers

Step 4 : create another class Doctors with datamembers name,specialization,salary,covid duty(yes,no),dept

Step 5 : create constructors to initialize datamembers and functions to display datamembers

Step 6 : create another class Hospital that inherits the properties of classes Nurses and Doctors

Step 7 :Create constructors to initialize datamembers

Step 8 : create object of class Hospital to display the datamembers of all classes

Step 9 : stop

PROGRAM CODE:

```
class Nurses:
```

```
    id = "
```

```
    Name = "
```

```
    Salary = "
```

```
    Qualification = "
```

```
    Covid_duty = "
```

```
    Department = "
```

```
def __init__(self,id,Name,Salary,Qualification,Covid_duty,Department):
```

```
    self.id = id
```

```
    self.Name = Name
```

```
    self.Salary = Salary
```

```
    self.Qualification = Qualification
```

```
    self.Covid_duty = Covid_duty
```

```
    self.Department = Department
```

```
def display(self):
```

```
    print("DISPLAY NURSES CLASS")
```

```
    print("ID - "+self.id)
```

```
    print("Nurse Name : "+self.Name)
```

```
    print("NurseSalary : "+self.Salary)
```

```
    print("NurseQualification : "+self.Qualification)
```

```
    print("Covid Duty(Yes/No) : "+self.Covid_duty)
```

```
    print("NurseDepartment : "+self.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("DISPLAY DOCTOR 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,id,Name,Salary,Qualification,Covid_duty,Department,Doctor_Name,Doctor_Specialization,Doctor_Salary,Doctor_Covid_duty,Doctor_Dept):

        self.hospital_id = hospital_id

        Nurses.__init__(self,id,Name,Salary,Qualification,Covid_duty,Department)

```

```

Doctors.__init__(self,Doctor_Name,Doctor_Specialization,Doctor_Salary,Doctor_Covid_duty,Doctor_Dept)

```

```

def display(self):

    print("DISPLAY HOSPITAL CLASS")

    print("Hospital_id - "+self.hospital_id)


    Nurses.display(self)


    Doctors.display(self)

```

```

obj1 = Hospital('1','5500','Ganga',,'Bsc','no','Health','Anoop','Cardiology','80000','no','Health')

obj1.display()

```

```
print("*****  
*****")
```

```
obj2 = Hospital('2', 'Henry', '10000', 'Bsc', 'Yes', 'Health', 'Sreenish', 'Neuro', '20000', 'Yes', 'Health')
```

```
obj2.display()
```

OUTPUT:

```
Display Hospital class
Hospital_id - 10
Display Nurses class
ID - 1
Nurse_Name - Ganga
Nurse_Salary - 5500
Nurse_Qualification - Bsc
Covid Duty(Yes/No) - No
Nurse_Department - Health
Display Doctors class
Doctor_Name - Anoop
Doctor_Specialization - Cardiology
Doctor_Salary - 80000
Covid Duty(Yes/No) - No
Department - Health
Hospital

Display Hospital class
Hospital_id - 11
Display Nurses class
ID - 2
Nurse_Name - Henry
Nurse_Salary - 8000
Nurse_Qualification - Bsc
Covid Duty(Yes/No) - Yes
Nurse_Department - Health
Display Doctors class
Doctor_Name - Sreenish
Doctor_Specialization - Neuro
Doctor_Salary - 20000
Covid Duty(Yes/No) - Yes
Department - Health
>>> |
```

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