Programming Lab Exam

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MCA Semester 1

TKM20MCA2021

Roll. No:21

Question 1:

Create a class nurses with data members id,name,salary,qualification,covid duty,department and a constructor to initialise them. Create another class Doctor with data members name,specialisation, salary, covid duty, department and a constructor to initialise them. Create a class Hospital derived from Nurses and Doctor with data member hospital id . Each class should have there own display function to display details. Create an object of Hospital and print the details of doctors and nurses engaged in covid duty

Algorithm:

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           and a constrained of the Pritical Ste House.
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            and Dockers
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   Step 5: display the name of nose and dodoes
              were engaged in could dealy.
    Step 6: displaying the hospitalouse Ust
     Step 7: Display the 6th hospital where &
                the doctors and Minsu one in
                duly.
```

Programe:

class Nurses:

```
def __init__(self):
    print("-----")
    self.n_memid=int(input("Enter the ID:"))
    self.n_name=input("Enter the name:")
    self.n_salary=int(input("Enter the salary:"))
    self.n_qualif=input("Enter the Qualification:")
    self.n_dept=input("Enter the department:")
    self.n_covid=input("Are you in Covid Duty(Yes/No):")
  def display(self):
     print("Member ID:", self.n_memid)
     print("Name:",self.n_name)
     print("Salary:",self.n_salary)
     print("Qualification:",self.n_qualif)
     print("Department:",self.n_dept)
     print("On Duty:",self.n_covid)
class Doctor:
  def __init__(self):
    print("-----")
    self.d_name=input("Enter the name:")
    self.d_salary=int(input("Enter the salary:"))
    self.d_specif=input("Enter the Specialization:")
```

```
self.d_dept=input("Enter the department:")
     self.d_covid=input("Are you in Covid Duty(Yes/No):")
  def display(self):
     print("Name:",self.d_name)
     print("Salary:",self.d_salary)
     print("specialization:",self.d_specif)
     print("Department:",self.d_dept)
     print("On Duty:",self.d_covid)
class hospital(Nurses, Doctor):
  def __init__(self,id):
     Nurses.__init__(self)
     Doctor.__init__(self)
     self.h_id=id
  def display(self):
     if(self.d_covid=='Yes','yes'):
       print("Doctor Name:",self.d_name)
     if(self.n_covid=='Yes','yes'):
       print("Nurse Name:",self.n_name)
id1 =int(input("Enter the hospital ID:"))
s1=hospital(id1)
id2 =int(input("Enter the hospital ID:"))
s2=hospital(id2)
q=int(input("Enter the Hospital Id to check for Covid duty for staff:"))
```

```
if(q==id1):
    s1.display()
if(q==id2):
    s2.display()
```

Output:

```
======== RESTART: C:/Users/Jomin/Desktop/Examprgrm.py ==========
Enter the hospital ID:1
-----Nurses-----
Enter the ID:1
Enter the name:as
Enter the salary:123
Enter the Qualification: B.Sc
Enter the department: Surgical
Are you in Covid Duty(Yes/No):Yes
-----Doctor----
Enter the name:Anju
Enter the salary:12300
Enter the Specialization: Cardiology
Enter the department:Center
Are you in Covid Duty(Yes/No):Yes
Enter the hospital ID:2
-----Nurses--
Enter the ID:123
Enter the name:Anjana
Enter the salary:3450
Enter the Qualification: B.SC
Enter the department:asd
Are you in Covid Duty(Yes/No):Yes
-----Doctor----
Enter the name: jas
Enter the salary:12345
Enter the Specialization:manw
Enter the department:center
Are you in Covid Duty(Yes/No):Yes
Enter the Hospital Id to check for Covid duty for staff:2
Doctor Name: jas
Nurse Name: Anjana
>>>
```