S1 EXTERNAL LAB EXAMINATION PROGRAMMING LAB

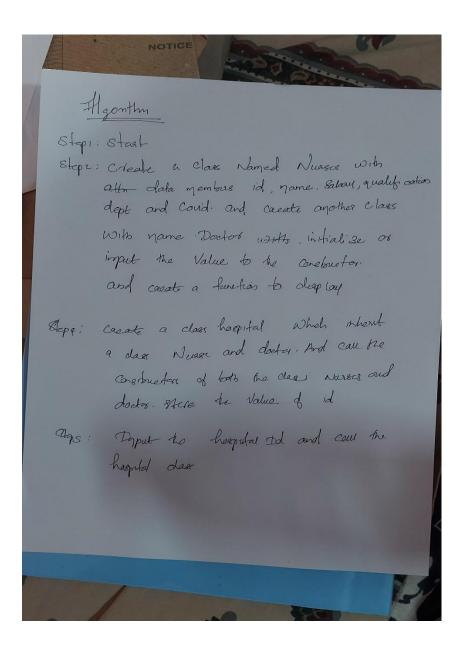
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MCA S1

TKM 20MCA2002

QUESTION:

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



PROGRAM CODE

class Nurses:

```
def __init__(self):
    self.nid=int(input("enter the id"))
    self.name=input("Enter the name")
    self.salary=int(input("enter the salary"))
    self.qualification=input("enter the qualificaton")
    self.dept=input("Enter the department")
    self.covid=input("ARE YOU ENGAGED IN COVID DUTY(YES/NO)")
  def display(self):
    print("id", self.nid)
    print("Nurse Name:",self.name)
    print("SALARY:",self.salary)
    print("Qualification",self.qualification)
    print("Dept",self.dept)
     print("ON COVID DUTY",self.covid)
class Doctor:
  def __init__(self):
    self.Dname=input("enter the Doctor name:")
    self.Dsalary=int(input("Enter the salary"))
    self.Dspec=input("specialization:")
    self.Ddept=input("Enter the department")
    self.Dcovid=input("ARE YOU ENGAGED IN COVID DUTY(YES/NO)")
```

```
def display(self):
     print("Name of the Doctor",self.Dname)
     print("Specialized in:",self.Dsalary)
     print("salary",self.Dspec)
     print("Department:",self.Ddept)
     print("ON COVID DUTY",self.Dcovid)
class hospital(Nurses, Doctor):
  def __init__(self,id):
    Doctor.__init__(self)
    Nurses.__init__(self)
    self.h_id=id
  def display(self):
    if(self.d_covid=='Yes'):
       print("Doctor Name is:",self.Dname)
    if(self.n_covid=='Yes'):
       print("Nurse Name is:",self.name)
id1 =int(input("Enter the hospital ID"))
h1=hospital(id1)
id2 =int(input("Enter the hospital ID"))
h2=hospital(id2)
q=int(input("Enter the hospital id to check for covid duty staffs:"))
if(q==id1):
  h1.display()
if(q==id2):
  h2.display()
```

OUTPUT

```
DESHED Debug Options Window Help

Sython 3.9.1 (tags/v13.5):lie5d35e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on wind2

Type "help", "copyright", "cattication of license()" for more information.

>>>

Dester the hospital ID:6

Enter the hospital ID:7

Enter the salary:0000

Enter the Sycialization:DREFO

ARE YOU ENGAGED IN COVID DUTY (YES/NO):Yes

Enter the manetaravind

enter the salary:0000

enter the qualificationse

Enter the hospital ID:7

Enter Hospi
```