SIJI JOSE
20 MCA 237

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, salary, 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 a unique hospital id. All classes include display functions to display all the data members. Create an instance of a hospital showing the list of doctors and nurses engaged in covid duty.

ALGORITHM

Step 1: Create a class Nurses, with data members
Step 2: Use constructor for initializing the data members of the class Nurses
Step 3: Create another class Doctors, with data members
Step 4: Use constructor for initializing the data members of the class Doctors
Step 5: Create a class Hospital that inherits these two classes
Step 6: And using constructor to initialize its data members
Step 7: Create display functions to display all the data members
Step 8: Create an instance for class Hospital to display the list of doctors and nurse

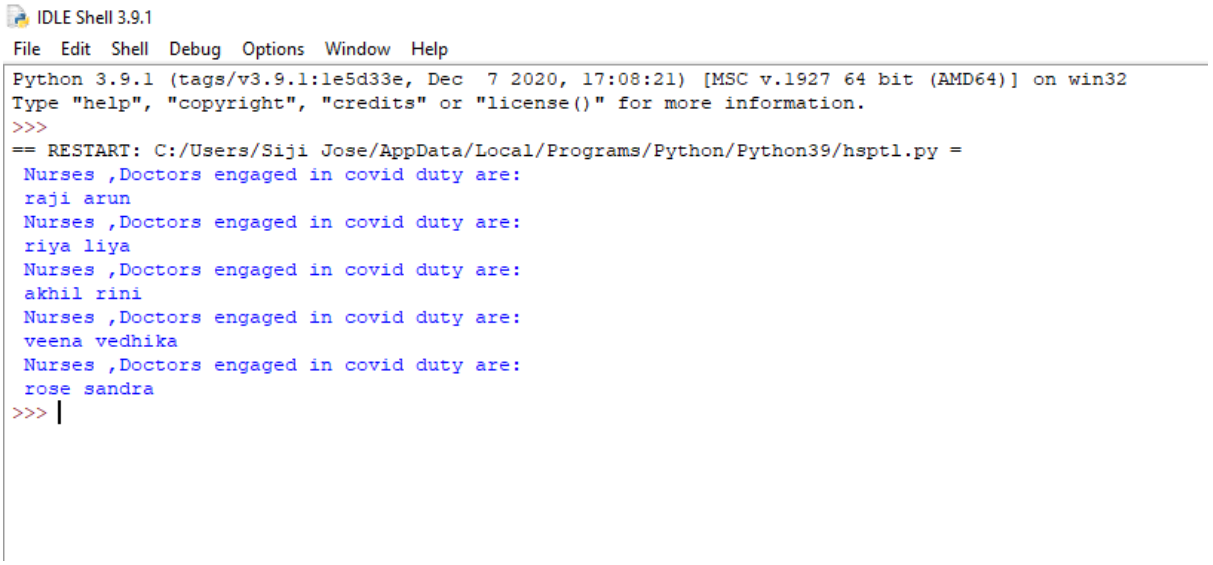
PROGRAM CODE

```
class Nurses:
    def __init__(self,id,Name_n,Salary_n,Qualification,covid_duty_n,Dept_n):

        self.id=id
        self.Name_n=Name_n
        self.Salary_n=Salary_n
        self.Qualification=Qualification
        self.covid_duty_n=covid_duty_n
        self.Dept_n=Dept_n
    def display(self):
        print("ID is", self.id)
        print("Name is", self.Name_n)
        print("Salary is", self.Salary_n)
        print("Qualification is", self.Qualification)
        print("IS in covid duty:",self.covid_duty_n)
        print("Department is:", self.Dept_n)
class Doctors:
    def __init__(self,name_d,Specialization,Salary_d,covid_duty_d,Dept_d):
```

```
        self.name_d=name_d
        self.Specialization=Specialization
        self.Salary_d=Salary_d
        self.covid_duty_d=covid_duty_d
        self.Dept_d=Dept_d
    def display(self):
        print("Name is", self.name)
        print("Specialized in:",self.Specialization)
        print("Salary is", self.Salary)
        print("IS in covid duty:",self.covid_duty)
        print("Department is:", self.Dept)
class hospital(Nurses,Doctors):
    def
__init__(self,id,Name_n,Salary_n,Qualification,covid_duty,Dept_n,name_d,Specializ
ation,Salary_d,Dept_d,hospital_id):
        Nurses.__init__(self,id,Name_n,Salary_n,Qualification,covid_duty,Dept_n)
        Doctors.__init__(self,name_d,Specialization,Salary_d,covid_duty,Dept_d)
        self.hospital_id=hospital_id
    def display(self):
        print(" Nurses ,Doctors engaged in covid duty are:\n",self.Name_n,self.name_d)
b1=hospital(1,"raji",25000,"bsc","yes","general","arun","ortho",45000,"general",101)
b2=hospital(1,"riya",35000,"bsc","yes","general","liya","ortho",55000,"general",101)
b3=hospital(1,"akhil",15000,"bsc","yes","general","rini","ortho",65000,"general",101)
b4=hospital(1,"veena",35000,"bsc","yes","general","vedhika","ortho",75000,"general",
101)
b5=hospital(1,"rose",65000,"bsc","yes","general","sandra","ortho",45000,"general",10
1)
b1.display()
b2.display()
b3.display()
b4.display()
b5.display()
```

OUTPUT


IDLE Shell 3.9.1
File Edit Shell Debug Options Window Help
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
== RESTART: C:/Users/Siji Jose/AppData/Local/Programs/Python/Python39/hsptl.py =
Nurses ,Doctors engaged in covid duty are:
raji arun
Nurses ,Doctors engaged in covid duty are:
riya liya
Nurses ,Doctors engaged in covid duty are:
akhil rini
Nurses ,Doctors engaged in covid duty are:
veena vedhika
Nurses ,Doctors engaged in covid duty are:
rose sandra
>>>