Test Title: Xplore_OPA_22May2020_Python
Question Title : OPA-Python: Hospital management

Solution:

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# Enter your code here. Read input from STDIN. Print output to STDOUT
#1. Define the Doctor class <after this line>



#2. Define the Hospital class <after this line>



#3.Define the main function / program.
#Refer the Question text, before sample input , which gives Some hint / more clarity for
# main function implementation < after this line>
class Doctor:
    def __init__(self,doctorId,doctorName,specialization,consultationFee):
        self.doctorId=doctorId
        self.doctorName=doctorName
        self.specialization=specialization
        self.consultationFee=consultationFee

class Hospital:

    def __init__(self,doctorDict):
        self.doctorDB=doctorDict

    def searchByDoctorName(self,name):

        restech=[]
        flag=0

        for docKeys in self.doctorDB.keys():
            if(name==self.doctorDB[docKeys].doctorName):
                restech.append(self.doctorDB[docKeys])
                flag=1
        if flag==0:
            return None

        return restech


    def calculateConsultationFeeBySpecialization(self,specialization):

        flag=0
        totalConsultationFee=0

        for docKeys in self.doctorDB.keys():
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            if(specialization==self.doctorDB[docKeys].specialization):
                totalConsultationFee=totalConsultationFee+self.doctorDB[docKeys].consultationFee
                flag=1
        if flag==0:
            totalConsultationFee=0
        return totalConsultationFee


if __name__ == '__main__':
    doctorDB={}
    doctorCount_master = int(input())
    for i in range(doctorCount_master):
        doctorId=int(input())
        doctorName=input()
        specialization=input()
        consultationFee=int(input())
        doctorObj=Doctor(doctorId,doctorName,specialization,consultationFee)
        doctorDB.update({i: doctorObj})
    hospitalObj=Hospital(doctorDB)

    doctorName_searchFor=input()
    resDoc=hospitalObj.searchByDoctorName(doctorName_searchFor)
    specialization_forTotalPrice=input()
    totalPrice=hospitalObj.calculateConsultationFeeBySpecialization(specialization_forTotalPrice)

    if resDoc==None:
        print("No Doctor Exists with the given DoctorName")
    else:
        for k in resDoc:
            print(k.doctorId)
            print(k.doctorName)
            print(k.specialization)
            print(k.consultationFee)
    if totalPrice==0 :
        print("No Doctor with the given specialization")
    else:
        print(totalPrice)
```