

Final_Exam_20101482

September 25, 2020

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[ ]: #Question- 2

class Car:
    count=0
    def __init__(self,name,year):
        self.name=name
        self.year=year
        Car.count+=1

    def add_Services(self,*services):
        self.services=services

    def printCarDetail(self):
        print("Name: {name}\nYear of manufacture: {year}".format(name=self.
↪name,year=self.year))
        print("List of services: ",end="")
        s=""
        for i in self.services:
            s=s+", "+i
        print(s[2:])

print("No.of Car=", Car.count)
c1 = Car('Lamborghini', 2002)
c1.add_Services('Battery Replacement', 'A/C Recharge')
c2 = Car('Toyota Corolla', 2016)
c2.add_Services('Radiator Flush', 'Fill Service')
c3 = Car('Mitsubishi Pajero', 2018)
c3.add_Services('Filter change', 'Timing Belt Replacement')
print("=====")
c1.printCarDetail()
print("=====")
c2.printCarDetail()
print("=====")
c3.printCarDetail()
print("=====")
print("No.of Car =", Car.count)
```

[]: #Question- 3

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class Department:
    def __init__(self, s):
        self.semester = s
        self.name = "Default"
        self.id = -1

    def student_info(self):
        print("Name:", self.name)
        print("ID:", self.id)

    def courses(self, c1, c2, c3):
        print("No courses Approved yet!")

class CSE(Department):
    def __init__(self, name, roll, sem):
        self.name = name
        self.id = roll
        self.semester = sem

    def courses(self, c1, c2, c3):
        print("Courses approved to this CSE student in {sem} semester:".
        ↪format(sem=self.semester))
        print(c1)
        print(c2)
        print(c3)

class EEE(Department):
    def __init__(self, name, roll, sem):
        self.name = name
        self.id = roll
        self.semester = sem

    def courses(self, c1, c2, c3):
        print("Courses approved to this EEE student in {sem} semester:".
        ↪format(sem=self.semester))
        print(c1)
        print(c2)
        print(c3)

s1 = CSE("Rahim", 16101328, "Spring2016")
s1.student_info()
print("-----")
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s1.courses("CSE110", "MAT110", "ENG101")
print("=====")
s2 = EEE("Tanzim", 18101327, "Spring2018")
s2.student_info()
print("-----")
s2.courses("Mat110", "PHY111", "ENG101")
print("=====")
s3 = CSE("Rudana", 18101326, "Fall2017")
s3.student_info()
print("-----")
s3.courses("CSE111", "PHY101", "MAT120")

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[]: *#Question- 1*

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list1 = input()
range1 = input()
list2 = list1.split(",")
dict1 = {}
summation = int(list2[0])
dict1[0] = summation

i = 1
while i < len(list2):
    summation += int(list2[i])
    dict1[i] = summation
    i += 1

print(dict1)
r1=int(range1[0])
r2=int(range1[2])
print(dict1[r2] - dict1[r1-1])

```