

```

class CSEDepartment:
    total_student = 0

    def __init__(self, name, credit):
        self.name = name
        self.credit = credit

    def __str__(self):
        s = "Program: "+self.name + ", Credit hours: " + str(self.credit)
        return s

class CSEProgram(CSEDepartment):

    def __init__(self, name, credit):
        super().__init__(name, credit)
        CSEDepartment.total_student += 1
        print(str(self.name) + ' students need to complete ' + str(self.credit) + ' credits')
        self.scredit = []

    def addStudentWithCredits(self, s1, s2, s3, s4, s5, s6):
        self.s1=s1
        self.s2=s2
        self.s3=s3
        self.s4=s4
        self.s5=s5
        self.s6=s6

    def __str__(self):
        return f'{super().__str__()} \nStudent details: \nName: {self.s1},Credit remaining:{136-self.s2} \nName: {self.s3},Credit remaining:{136-self.s4} \nName: {self.s5},Credit remaining:{136-self.s6}'

class CSPProgram(CSEDepartment):

    def __init__(self, name, credit):
        super().__init__(name, credit)
        CSEDepartment.total_student += 1
        print(str(self.name) + ' students need to complete ' + str(self.credit) + ' credits')

    def addStudentWithCredits(self, s1, s2, s3, s4):
        self.s1=s1

```

```

        self.s2=s2
        self.s3=s3
        self.s4=s4

    def __str__(self):
        return f'{super().__str__()} \nStudent details: \nName: {self.s1},Credit remaining:{136-self.s2} \nName: {self.s3},Credit remaining:{136-self.s4} '

# Write your codes here.
# Do not change the following lines of code.
p1 = CSEProgram("CSE", 136)
print("=====")
p1.addStudentWithCredits("Bob", 12, "Carol", 18, "Mike", 15)
print("=====")
print(p1)
print("=====")
p2 = CSProgram("CS", 124)
print("=====")
p2.addStudentWithCredits("David", 12, "Simon", 18)
print("=====")
print(p2)
print("=====")
print("Total Students in CSE Department: ", CSEDepartment.total_student)

```