

In [1]:

```
def cgpa_display():
    total1=0
    gtotal=0
    grades={"O":"10", "A+": "9", "A": "8", "B+": "7", "B": "6", "U": "0"}
    name=input("\n Enter the student name:")
    dept=input("\n Enter department of the student:")
    year=input("\n Enter year of the student:")
    sem=input("\n Enter semester of the student:")
    n=int(input("\n Enter the no.of.subjects:"))
    print("\n Enter the grades in (O-U)U-arrear:")
    marks=[]
    for entry in range(n):
        cc=input("Enter the coursecode:")
        ma=input("Enter the grades in (O-U):")
        g=float(input("Enter the gradepoints:"))
        if ma in grades:
            m=float(grades[ma])
            ma=ma.upper()
            entry=(cc,g,m,ma)
            marks.append(entry)
            if ma=="U":
                mn="0"
            else:
                mn="1"
    if mn=="0":
        print("\n\tNAME:", name, "\t\tDEPARTMENT:", dept)
        print("\n\tSEMESTER:", sem, "\t\tYEAR:", year)
        print("\ncoursecode grade")
        for entry in marks:
            cc,g,m,ma=entry
            print("\n\t", cc, "\n\t", ma)
        print("\n\nCGPA=ARREAR")
    else:
        print("\n\tNAME:", name, "\t\tDEPARTMENT:", dept)
        print("\n\tSEMESTER:", sem, "\t\tYEAR:", year)
        print("\ncoursecode grade")
        for entry in marks:
            cc,g,m,ma=entry
            print("\n\t", cc, "\n\t", ma)
            total1=total1+m*g
            gtotal=gtotal+g
        cgpa=total1/gtotal
        print("\n CGPA=", cgpa)
cgpa_display()
```

Enter the student name:lakshmi

Enter department of the student:cse

Enter year of the student:3

Enter semester of the student:5

Enter the no.of.subjects:6

Enter the grades in (O-U)U-arrear:

Enter the coursecode:HS401
Enter the grades in (O-U):A+
Enter the gradepoints:001
Enter the coursecode:SS401
Enter the grades in (O-U):A+
Enter the gradepoints:002
Enter the coursecode:KH401
Enter the grades in (O-U):A
Enter the gradepoints:003
Enter the coursecode:LS401
Enter the grades in (O-U):B
Enter the gradepoints:004
Enter the coursecode:GH401
Enter the grades in (O-U):A+
Enter the gradepoints:005
Enter the coursecode:VS401
Enter the grades in (O-U):A+
Enter the gradepoints:006

NAME: lakshmi	DEPARTMENT: cse
SEMESTER: 5	YEAR: 3

coursecode grade

HS401 A+
SS401 A+
KH401 A
LS401 B
GH401 A+
VS401 A+

CGPA= 8.285714285714286

In []: