```
In [1]:  def cgpaCalculator():

             Totalmarks = 0

             Gradegot = 0


             courses = int(input(" Enter the number of Courses "))
             print ("_____")

             for x in range(courses):

                     code = input("Enter The Course code ")

                     unit = int(input ("Enter the no.of units "))

                     marks= int(input(" Enter your marks"))
                     print ("_____")


                     Totalmarks += unit* 5


                     #  grade (100 = 10 points ,  60-70 = 9 points ,  50-60 = 8 points ,50-45 = 7 points ,  45-40 = 6 point ,  lesser than 40 = 0 points )
                     if (marks >=91 and marks<=100):
                             grade = 10
                     elif(marks >=81 and  marks <=90):
                             grade = 9
                     elif(marks >= 71 and  marks <= 80 ):
                             grade = 8
                     elif(marks >=61 and  marks <=70):
                             grade = 7
                     elif ( marks>=50 and  marks<=60):
                             grade = 6
                     else :
                             grade = 0


                     Gradegot += unit*grade

             Cgpa =((Gradegot / Totalmarks) * 5)
             print(" YOUR CGPA IS : " ,(Cgpa))


         cgpaCalculator()
```

```
 Enter the number of Courses 6
_____
Enter The Course code H3001
Enter the no.of units 5
 Enter your marks89
_____
Enter The Course code H3002
Enter the no.of units 5
 Enter your marks90
_____
Enter The Course code H3003
Enter the no.of units 5
 Enter your marks95
_____
Enter The Course code H3004
Enter the no.of units 5
 Enter your marks86
_____
Enter The Course code H3005
Enter the no.of units 5
 Enter your marks76
_____
Enter The Course code H3006
Enter the no.of units 5
 Enter your marks80
_____
 YOUR CGPA IS :   8.833333333333332
```

In [ ]: