

OOPM Programming Assignment - 1

1. WAP to calculate the CGPA of a semester if the SGPA and total credits of each semester upto that semester is known. Below is the formula to find it.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here NC_j is the number of total credits offered in the j^{th} semester, SG_j is the SGPA earned in the j^{th} semester, where $j = 1, 2, \dots, m$, are the number of semesters in that programme.

2. WAP to check the eligibility of a 12th pass-out student in Engineering admission. A student is eligible to take admission in B.Tech only when his/her addition of marks in physics, chemistry and maths is 45%. A student is also eligible only when individual percentage in each subject is 40% or more. Assume that max marks in each subject is 100.
3. WAP to find all the factors of a given number.
4. WAP to find the N^{th} number in the given series:
 - a. 1, 2, 3, 4, 5, 6, n
 - b. 2, 4, 6, 8, 10, n
 - c. $1^3, 2^3, 3^3, 4^3, 5^3, 6^3, \dots n$
 - d. 1x2, 2x3, 3x4, 4x5, n
 - e. 1x2x3, 4x5x6, 7x8x9, ...n
5. Write a C Program to count the Number of Integers Divisible by 5 in the range 0-1000.