

Lab 04
PF – BSDS

Note: Kindly do your work, talking, sharing, and discussing is considered cheating (in any case) and strictly discouraged); therefore, be careful. TAs will be there for your help. Wait for TA, if you have any query

Task 1: Write a program to calculate gross salary and net salary. Besides, gross salary and net salary, you are also required to print medical allowance, house rent and tax. The input is basic salary. The details are as under:

Medical allowance = 10% of basic salary basic salary * 0.1
Conveyance allowance = 15% of basic salary basic salary * 0.15
House rent = 45% of basic salary
Gross Salary = Basic Salary + Medical Allowance + Conveyance allowance + House rent

Tax:

0, if salary is less than equal 200000
10 % of gross salary, if salary is greater than 200000, less than 400000
15 % of gross salary, if salary is greater than 400000, less than 600000
20 % of gross salary, if salary is greater than 600000, less than 800000
25 % of gross salary, if salary is greater than 800000

Note: For tax calculation multiply gross salary with 12 and calculate annual gross salary, apply check on annual gross salary and calculate tax on gross salary.

Net Salary = Gross Salary - Tax

Sample Run:

Input: Basic Salary = 30000

Output:

Basic Salary	30000
Medical Allowance	3000
Conveyance Allowance	4500
House Rent	13500

Gross Salary	51000
Less Tax	10200

Net Salary	40800

Task 2: Write a program to input the amount (deposited in the bank). Calculate and print the amount after each year for three years, where compound interest rate is 7% (if amount deposited is less than equal 5 lac), and otherwise compound interest rate will be 10%:

Sample Run:

Amount Deposited = 100000
Amount after one year = 107000
Amount after second year = 114490
Amount after third year = 122504

Amount Deposited = 600000
Amount after one year = 660000
Amount after second year = 726000
Amount after third year = 798600

Task 3: Write a program to generate a random number 0 to 20, check and print the number in English words.

Sample Run:

Number 7 in English is seven
Number 13 in English is thirteen
Number 0 in English is zero