Lab 04 – 27-09-2023

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
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Gross Salary          51000
Less Tax              10200
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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 = 125939

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 / (may take input), 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
```