

## Lab 03 – 27-09-2023

**Task 1: Write a program to calculate and print gross salary and net salary. The input is basic salary. The details are as under:**

Medical allowance = 10% of basic salary  $\text{basic salary} * 0.1$

Conveyance allowance = 15% of basic salary  $\text{basic salary} * 0.15$

House rent = 45% of basic salary

Gross Salary = Basic Salary + Medical Allowance + Conveyance allowance + House rent

Tax = 10 % of gross salary

Net Salary = Gross Salary - Tax

**Sample Run:**

Basic Salary = 30000

Gross Salary = 51000

Net Salary = 45900

**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 10%:**

**Sample Run:**

Amount Deposited = 100000

Amount after one year = 110000

Amount after second year = 121000

Amount after third year = 133100

**Task 3: Write a program to calculate height of a plant after each year for next five year, where the magical plant doubles its height after each year. The initial height of the plant is the input of the program:**

**Sample Run:**

Height = 5

Height after one year = 10

Height after second year = 20

Height after third year = 40

Height after fourth year = 80

Height after fifth year = 160