

**Lab 03**  
**PF – BSDS**

**Note:** Do your own work, talking, sharing, discussion is considered as cheating (in any case and strictly discouraged), therefore be careful. TA's will be there for your help. Wait for TA, if you have any query

**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                      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 = 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