

NATIONAL PUBLIC SCHOOL, HSR, BANGALORE
Grade 11-Lab Questions

Q1 Write a program to input the basic salary of the employee and calculate and print the hra, da, pf, grossal, netsal.

hra=40% of basicsal
basicsal

da=70% of basicsal

pf=12.5% of

netsal=basicsal+hra_da-pf

grossal=netsal*12// annual income

Print the pay slip as shown

Name:- Rahul Agrawal

Designation: Manager

Date:- 16/6/2019

Salary for the month: June

Component of Salary

Amount

Basic Salary

50000

HRA

20000

DA

35000

PF

6250

NetSal

111250

GrossSal

1335000

Q2

Write a python program to input the simultaneous linear equations representing the intersecting lines. Find the solution.

Example: -If $a_1x+b_1y+c_1=0$ and $a_2x+b_2y+c_2=0$ are the simultaneous linear equations, then the solution (x, y) is as follows:-

$$x = \frac{b_1c_2 - b_2c_1}{a_1b_2 - a_2b_1}$$

$$y = \frac{c_1a_2 - c_2a_1}{a_1b_2 - a_2b_1}$$

Q3

Write a python program to input an English letter and a digit. Encrypt the letter by adding the digit to it. Print the new character (letter) equivalent. Assume the English letters to be cyclic.

Example:-

Enter an alphabet R

Enter a digit 9

The encrypted letter is A

Enter an alphabet C

Enter a digit 5

The encrypted letter is H