

## 12\_python\_mixed\_exercises

This file contains a collection of python practice question that cover all basic and fundamental concepts in a simple,mixed format.

1. Write a program that takes employees` salaries as input and calculates the tax, insurance, and net salary.  
Insurance is 7% of the salary, and tax is 10% of the salary.  
The program is implemented using a simple function.
2. Write a program that takes the price of a product in the previous year and the current year, that calculates the inflation rate as a percentage and the price for the next year.  
This exercise is solved in the simplest way, without using a function.
3. Write program that generates the Fibonacci sequence.  
For example:

0,1,1,2,3,5,8,13,21,34

Except for the first two numbers ,each number is the sum of the two previous number.

4. This program takes a string from the user and prints its characters with a specified spacing between them.
5. This program receives an employee's total working hours for a month and calculates and prints the employee's salary.

The standard working hours are 160 hours per month ,with an hourly of 100,000 tomans.

The maximum overtime allowed per month is 40 hours , paid at an hourly rate of 50,000 tomans.

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6. This program is designed to handle a set of traffic fines ,allowing an officer to record the type of driving violations and calculate the total fine amount for a vehicle.
7. This program takes a string as input and prints a random character from the string using the random module.
8. This program takes a list of number as input and plots a histogram chart.
9. This program is written in a simple way using a function,it takes of words as input and outputs the word with the greatest length.