

# Introduction to Programming in Python

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## Overview & Purpose

This assignment tests the student's ability to

- Get input from the user
- Convert user input to a different format
- Perform arithmetic operation on the input
- ***Perform conditional execution***
- Use the Python print function to print out something on the screen.

## Problem statement

The management of Longho Investing Ltd is paying its employees on an hourly basis. The base hourly wage is 2000 FCFA. The normal working hours at Longho Investing is 40 hours per week. For any additional hour that the employee works, they get a bonus of 100 FCFA. An employee can work for a maximum of 50 hours a week and must work for at least one hour every week.

## Task

The management of Longho Investing Ltd has contacted you to help them automate the calculation of the salaries for their employees. Write a program to help the management of Longho Investing Ltd calculate an employee's weekly salary.

**See sample program output below for your inspiration**

## Sample output

### Normal

```
Please enter the number of hours worked this week: 2
Your weekly salary for 2.0 is 4000.0 CFA.
You did not earn any bonus this week!
```

### Employee works extra hours

```
Please enter the number of hours worked this week: 41
Your weekly salary for 41.0 is 82100.0 CFA.
You earned a bonus of 100.0 FCFA for the additional 1.0 hour worked.
```

### Wrong input for number of hours worked

```
Please enter the number of hours worked this week: 0
Weekly hours must be between 1 and 50.
```

```
Please enter the number of hours worked this week: 51
Weekly hours must be between 1 and 50.
```

## Tips:

1. Get the user input
2. Convert the user input to float
3. Check if the number of hours worked within the acceptable range. It should be greater than or equal to 1 and less than or equal to 50. Print an error if the hours worked are out of range.
4. If the hours worked is valid (within the range i.e  $1 \leq \text{hours\_worked} \leq 50$ ) then
  - a. calculate the weekly salary.
  - b. If the hours worked is greater than the normal weekly hours (40 hours), then calculate the bonus and add to the weekly salary
  - c. Print the result on the screen.

## Submission

Submit one .py file called **yourname\_assignment2.py** e.g **longho\_assignment1.py**

Good Luck

