

Classroom Assignment <9>: Employee Salary Calculator

Learning Objective:

The learning objective of this assignment is to practice writing and using functions in Python with **positional** and **default arguments**. Learners will calculate salary including allowances and optional bonus.

Expected Completion Time:

Best Case: 15 minutes

Average Case: 20 minutes

Assignment Details:

Write a Python program that calculates the total salary of an employee using a function.

1. Define a function `calculate_salary(basic, hra, da, bonus=0)`.
 - o `basic`, `hra`, and `da` are **positional arguments**.
 - o `bonus` is a **default argument** (default = 0).
2. The function should return the total salary = `basic + hra + da + bonus`.
3. Call the function with and without passing the `bonus` argument.

Requirements:

- Use positional arguments for mandatory components of salary.
- Use a default argument for `bonus`.
- Print the returned result from the function.

Hints to Solve:

- Example structure:

```
def calculate_salary(basic, hra, da, bonus=0):  
    return basic + hra + da + bonus  
  
# Calling without bonus  
salary1 = calculate_salary(30000, 8000, 5000)  
print("Salary (without bonus):", salary1)  
  
# Calling with bonus  
salary2 = calculate_salary(30000, 8000, 5000, 2000)  
print("Salary (with bonus):", salary2)
```

Expected Outcome:

- Salary (without bonus): 43000
- Salary (with bonus): 45000