



Shri Yashwantrao Bhonsale Education Society's  
**YASHWANTRAO BHONSALE INSTITUTE OF TECHNOLOGY**

**(DTE CODE : 3470) (MSBTE Code : 1742)**

Approved by AICTE, DTE & Affiliated to Mumbai University & MSBTE Mumbai  
(NBA Accredited ME, CE, EE Diploma Programs)

## **Practical No 3**

### **Aim**

Write a Python program to calculate the gross salary of an employee. The program should prompt the user for the basic salary (BS) and then compute the dearness allowance (DA) as 70% of BS, the travel allowance (TA) as 30% of BS, and the house rent allowance (HRA) as 10% of BS. Finally, it should calculate the gross salary as the sum of BS, DA, TA, and HRA and display the result..

### **Apparatus / Software Required**

- Python Interpreter (Python 3.14.2)

### **Theory**

#### ♦ **input()** Function

- Used to accept data from the user.
- Returns data in **string format**, so type conversion is required.

#### ♦ **float()** Function

- Converts user input into **decimal (floating-point) value**.
- Required because salary can contain decimal values.

#### ♦ **Variables**

- Used to store data values.
- Examples:
  - `basic_salary`
  - `da, ta, hra`
  - `gross_salary`
  -



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◆ **Arithmetic Operators**

- $*$  → Multiplication (used to calculate percentages)
- $+$  → Addition (used to calculate gross salary)

◆ **Percentage Calculation**

- $DA = 0.70 * \text{basic\_salary}$
- $TA = 0.30 * \text{basic\_salary}$
- $HRA = 0.10 * \text{basic\_salary}$

◆ **print() Function**

- Used to display output on the screen.

## **Algorithm**

1. **Start**
2. **Input** the Basic Salary (BS) from the user
3. **Calculate Dearness Allowance (DA)** as  
 $DA = 70\% \text{ of BS}$
4. **Calculate Travel Allowance (TA)** as  
 $TA = 30\% \text{ of BS}$
5. **Calculate House Rent Allowance (HRA)** as  
 $HRA = 10\% \text{ of BS}$
6. **Calculate Gross Salary (GS)** as  
 $GS = BS + DA + TA + HRA$
7. **Display** DA, TA, HRA, and Gross Salary
8. **Stop**





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