

Experiment 1(3)

Calculating Gross Salary of an Employee: 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.

Algorithm:

1. Start
2. Input: Prompt the user to enter the Basic Salary (bs).
3. Check for Valid Input:
 - If the input is not a valid number, go to Step 5.
 - If the input is valid, proceed to the next step.
4. Input Validation:
 - If the Basic Salary (bs) is negative, print "Basic salary cannot be negative." and exit the function.
5. Calculate Allowances:
 - Dearness Allowance (da) = Basic Salary (bs) \times 70% (or bs * 70 / 100)
 - Travel Allowance (ta) = Basic Salary (bs) \times 30% (or bs * 30 / 100)
 - House Rent Allowance (hra) = Basic Salary (bs) \times 10% (or bs * 10 / 100)
6. Calculate Gross Salary:
 - Gross Salary = Basic Salary (bs) + Dearness Allowance (da) + Travel Allowance (ta) + House Rent Allowance (hra)
7. Output: Print the Gross Salary, rounded to 2 decimal places.
8. Exception Handling:
 - If there is an invalid input (e.g., non-numeric data), print: "Please enter a valid number for the salary."
9. End

Program:

```
def grossSalary():  
    bs=float(input("Enter Basic Salary:"))  
    da=(bs*70)/100  
    ta=(bs*30)/100  
    hra=(bs*10)/100  
  
    grossSal=bs+da+ta+hra  
  
    print("Gross Salary:",grossSal)  
  
grossSalary()
```

#image of program

```
def grossSalary():  
    try:  
        bs = float(input("Enter Basic Salary:"))  
        if bs < 0:  
            print("Basic salary cannot be negative.")  
            return  
        da = (bs * 70) / 100  
        ta = (bs * 30) / 100  
        hra = (bs * 10) / 100  
  
        grossSal = bs + da + ta + hra  
  
        print(f"Gross Salary: {grossSal:.2f}")  
    except ValueError:  
        print("Please enter a valid number for the basic salary.")  
  
grossSalary()
```

Output:

Enter Basic Salary: 20000

Gross Salary: 42000.00