

PPS Assignment-1

Title: Employee Salary Calculation

Problem statement: Write a program in python to calculate salary of an employee given his basic pay (take as input from user). Calculate gross salary of employee. let HRA be 10% of basic pay and TA be 5% of basic pay. Let the tax paid by employee be 2% of total salary calculate net salary after deduction.

Objective: To find net salary after deduction

Requirements: Basic pay of employee from user.

Theory: The theory concepts included the syntax to take input from user, various operators to carry out mathematical calculations and it also included the question of calculating net salary and printing it.

Algorithm:

Step 1: Start

Step 2: Accept the value of basic pay from user

Step 3: Calculate HRA and TA

Step 4: Calculate gross salary = basic pay + HRA + TA

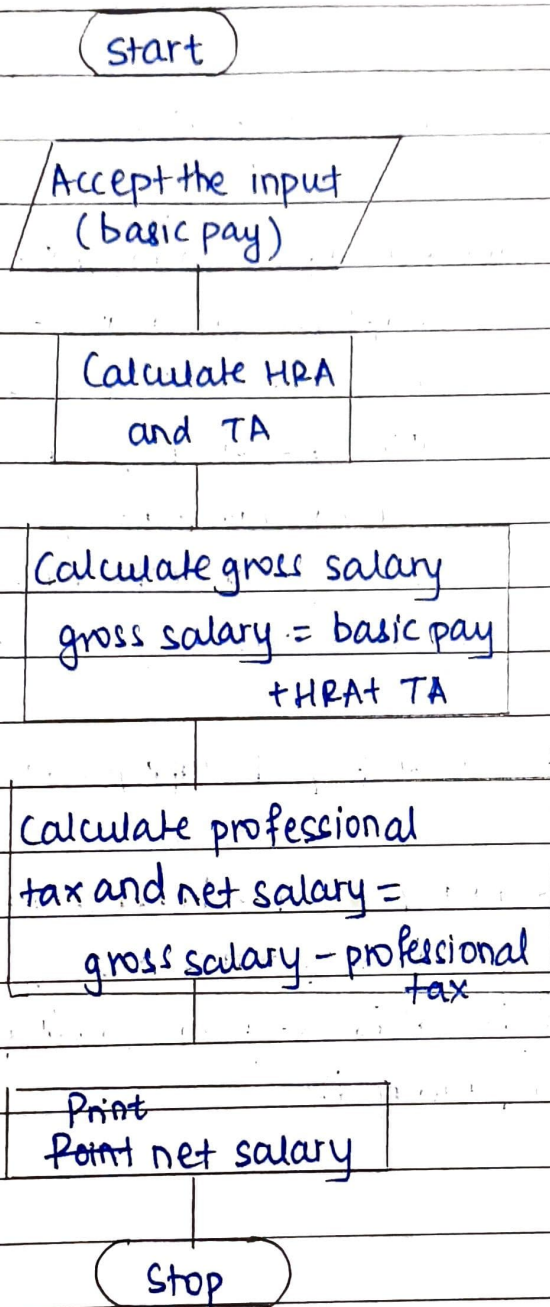
Step 5: Calculate professional tax on gross salary.

Step 6: Calculate net salary = gross salary - professional tax

Step 7: Print net salary

Step 8: Stop

Flowchart :



Test Cases:

Test case No.	Test case description	Expected output	Actual output	Test Status
1.	1000	1150	1150	Pass
2.	5000	5635	5635	Pass
3.	10000	11270	11270	Pass

Conclusion: We learnt how to take input and how to execute print statements along with mathematical operations.


```
1 name = input("Enter your name: ")
2 employee_id = int(input("Enter your employee_id: "))
3 base_sal = int(input("Enter your salary: "))
4
5 # Required details
6 hra = base_sal*0.1
7 ta = base_sal*0.05
8 totalSalary = base_sal + hra + ta
9 tax = totalSalary*0.02
10 net_salary = totalSalary - tax
11
12 # Print statements
13 print("-"*40)
14 print("HRA of employee is ", hra)
15 print("TA of employee is ", ta)
16 print("Total salary is ", totalSalary)
17 print("Net payable salary of " + name + "is: ", net_salary)
18 print("Thank you")
19 print("-"*40)
20
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

SQL CONSOLE: MESSAGES

```
PS E:\PPS> python -u "e:\PPS\Assignment-1.py"
```

```
Enter your name: Dinesh
```

```
Enter your employee_id: 10141
```

```
Enter your salary: 1000
```

```
-----
HRA of employee is 100.0
```

```
TA of employee is 50.0
```

```
Total salary is 1150.0
```

```
Net payable salary of Dineshis: 1127.0
```

```
Thank you
-----
```

```
PS E:\PPS> █
```



Assignment-1.py X

Student.py

Assignment-2.py

Assignment-1.py > ...

```
1  name = input("Enter your name: ")
2  employee_id = int(input("Enter your employee_id: "))
3  base_sal = int(input("Enter your salary: "))
4
5  # Required details
6  hra = base_sal*0.1
7  ta = base_sal*0.05
8  totalSalary = base_sal + hra + ta
9  tax = totalSalary*0.02
10 net_salary = totalSalary - tax
11
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13 print("-"*40)
14 print("HRA of employee is ", hra)
15 print("TA of employee is ", ta)
16 print("Total salary is ", totalSalary)
17 print("Net payable salary of " + name + "is: ", net_salary)
18 print("Thank you")
19 print("-"*40)
20
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

SQL CONSOLE: MESSAGES

PS E:\PPS> python -u "e:\PPS\Assignment-1.py"

Enter your name: Dinesh

Enter your employee_id: 10141

Enter your salary: 5000

HRA of employee is 500.0

TA of employee is 250.0

Total salary is 5750.0

Net payable salary of Dineshis: 5635.0

Thank you

PS E:\PPS> █

Python 3.9.0 64-bit

0 0

Connect

dinesh.g.nehete@gmail.com



Live Share



Type here to search


```
1  name = input("Enter your name: ")
2  employee_id = int(input("Enter your employee_id: "))
3  base_sal = int(input("Enter your salary: "))
4
5  # Required details
6  hra = base_sal*0.1
7  ta = base_sal*0.05
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18 print("Thank you")
19 print("-"*40)
20
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

SQL CONSOLE: MESSAGES

```
PS E:\PPS> python -u "e:\PPS\Assignment-1.py"
```

```
Enter your name: Dinesh
```

```
Enter your employee_id: 10141
```

```
Enter your salary: 10000
```

```
-----
HRA of employee is  1000.0
```

```
TA of employee is  500.0
```

```
Total salary is  11500.0
```

```
Net payable salary of Dineshis:  11270.0
```

```
Thank you
-----
```

```
PS E:\PPS> █
```