

## ASSIGNMENT-3

Q. Write a program to find the salary statement for  $n$  number of employees of an organization

The details are: Employee's No, Employee's name, Designation, Appointment date, Address, Mobile No and Basic Pay

Calculate the following as per given rules:

Dearness Allowance (DA): 117% of basic pay

House Rent Allowance (HRA): 25% of basic pay

Provident Fund (PF): 12% of basic pay

Medical Allowance (MA): 10% of basic pay

Net Pay: Basic Pay + Dearness Allowance + House Rent Allowance + Medical Allowance

Gross Pay: Net Pay - Provident Fund

All the employees should pay the Income Tax as per given rules:

Annual Salary (Rs)	Rate of Income Tax (Rs)
Up to 150000	0
150001 to 300000	5% of the amount exceeding 150000
300001 to 500000	7% of the amount exceeding 300000
500001 to 700000	7% of the amount exceeding 500000
700001 to 1000000	9% of the amount exceeding 700000
Above 1000000	10% of the amount exceeding 1000000



## Output Format:

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### SALARY SLIP

Employee Number	:
Name of the Employee	:
Designation	:
Appointment Date	:
Address	:
Mobile no.	:
Basic Pay	:
Dearness Allowance	:
House Rent Allowance	:
Provident Fund	:
Medical Allowance	:
Net Pay	:
Gross Pay	:

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### INCOME TAX SLIP

Teacher's Signature \_\_\_\_\_

P.T.O.



Employee Number :  
 Name of the Employee :  
 Designation :  
 Annual Income :  
 Annual Income Tax :  
 Monthly Income Tax :

### ALGORITHM:

Start:

Step 1: Accept number of employees,

Step 2: Accept employee number, employee name, designation, appointment date, address, mobile number and basic pay for given number of employees.

Step 3: Calculate Dearness Allowance, House Rent Allowance, Provident Fund, medical Allowance, Net pay, Gross Pay according to given formula.

Step 4: Calculate Annual Income, Annual Income Tax and Monthly Income tax as per given criteria.

Step 5: Display the output as per given format along with all details.

Stop:

### PROGRAM CODE:

```
ans = 'y'
```

```
while ans == 'y' or ans == 'Y':
```

```
    n = int(input("Enter number of employees: "))
```

```
    for i in range(1, n+1):
```

```
        EN = input("Enter employee number: ")
```

P.T.O.



Enter number of employees: 2  
Enter employee number: TSC605  
Enter employee name: Sagar Agarwal  
Enter designation: Chief Marketing Officer  
Enter appointment date: 07/03/2007  
Enter address: 15/20, Lane no.5, Prem Bazar-721301  
Enter mobile number: 8237452307  
Enter basic pay: 50000

-----  
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-----

-----  
SALARY SLIP  
-----

Employee Number	: TSC605
Name of the Employee	: Sagar Agarwal
Designation	: Chief Marketing Officer
Appointment Date	: 07/03/2007
Address	: 15/20, Lane no.5, Prem Bazar-721301
Mobile no.	: 8237452307
Basic Pay	: 50000.0
Dearness Allowance	: 58500.0
House Rent Allowance	: 12500.0
Provident Fund	: 6000.0
Medical Allowance	: 5000.0
Net Pay	: 126000.0
Gross Pay	: 120000.0

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-----  
INCOME TAX SLIP  
-----

Employee Number	: TSC605
Name of the Employee	: Sagar Agarwal
Designation	: Chief Marketing Officer
Annual Income	: 1440000.0
Annual Income Tax	: 106500.0
Monthly Income Tax	: 8875.0

Assignment-3      Output (1)



Enter employee number: TSC431  
Enter employee name: Poonam Sharma  
Enter designation: Technology Manager  
Enter appointment date: 18/11/2012  
Enter address: 23/20, Street no.3, Gole Bazaar-721301  
Enter mobile number: 7352134690  
Enter basic pay: 30000

-----  
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-----

-----  
SALARY SLIP  
-----

-----  
Employee Number : TSC431  
Name of the Employee : Poonam Sharma  
Designation : Technology Manager  
Appointment Date : 18/11/2012  
Address : 23/20, Street no.3, Gole Bazaar-721301  
Mobile no. : 7352134690  
Basic Pay : 30000.0  
Dearness Allowance : 35100.0  
House Rent Allowance : 7500.0  
Provident Fund : 3600.0  
Medical Allowance : 3000.0  
Net Pay : 75600.0  
Gross Pay : 72000.0  
-----

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-----

-----  
INCOME TAX SLIP  
-----

-----  
Employee Number : TSC431  
Name of the Employee : Poonam Sharma  
Designation : Technology Manager  
Annual Income : 864000.0  
Annual Income Tax : 50260.0  
Monthly Income Tax : 4188.333333333333  
-----

Do you want to continue? Press Y/y: no  
>>>

Assignment-3

Output (2)



```

N = input('Enter employee name: ')
D = input('Enter designation: ')
ad = input('Enter appointment date: ')
A = input('Enter address: ')
Mn = input('Enter mobile number: ')
BP = float(input('Enter basic pay: '))
DA = 117/100 * BP # Calculation of Dearness Allowance
HRA = 25/100 * BP # Calculation of House Rent Allowance
PF = 12/100 * BP # Calculation of Provident Fund
MA = 10/100 * BP # Calculation of Medical Allowance
NP = BP + DA + HRA + MA # Calculation of Net Pay
GP = NP - PF # Calculation of Gross Pay
AI = GP * 12 # Calculation of Annual Income
if AI <= 150000:
    tax = 0
elif 150000 < AI <= 300000:
    tax = 5/100 * (AI - 150000)
elif 300000 < AI <= 500000:
    tax = 7/100 * (AI - 300000) + 7500
elif 500000 < AI <= 700000:
    tax = 7/100 * (AI - 500000) + 14000 + 7500
elif 700000 < AI <= 1000000:
    tax = 9/100 * (AI - 700000) + 14000 + 14000 + 7500
elif AI >= 1000000:
    tax = 10/100 * (AI - 1000000) + 28000 + 14000 + 14000 + 7500
m_tax = tax / 12
print('-----')
print('TSC SOFTWARE SOLUTION LTD.')
print('Kharagpur')

```



```

print(03222-220020)
print(-----)
print(SALARY SLIP)
print(-----)
print('Employee Number', BN)
print('Name of the Employee', N)
print('Designation', D)
print('Appointment Date', ad)
print('Address', A)
print('Mobile No.', Mn)
print('Basic Pay', BP)
print('Dearness Allowance', DA)
print('House Rent Allowance', HRA)
print('Provident Fund', PF)
print('Medical Allowance', MA)
print('Net Pay', NP)
print('Gross Pay', GP)
print()
print(-----)
print(TSC SOFTWARE SOLUTION LTD.)
print(KHARAGPUR)
print(03222-220020)
print(-----)
print(INCOME TAX SLIP)
print(-----)
print('Employee Number', BN)
print('Name of the Employee', N)
print('Designation', D)
print('Annual Income', AI)

```



```

print('Annual Income Tax', tan)
print('Monthly Income Tax', m_tan)
print()

```

ans = input("Do you want to continue? Press Y/y: ")

### VARIABLE DESCRIPTION:

VARIABLE NAME	DATA TYPE	PURPOSE
ans	string	Storing value if the user wants to continue
n	integer	Storing value of no. of employees
EN	string	Storing value of employee number
N	string	Storing name of employee
D	string	Storing designation of employee
ad	string	Storing appointment date of employee
A	string	Storing address of employee
Mn	string	Storing mobile no. of employee
BP	float	Storing basic pay of employee
DA	float	Storing value of Dearness Allowance according to given formula



VARIABLE NAME	DATA TYPE	PURPOSE
HRA	float	Storing value of House Rent Allowance according to given formula
PF	float	Storing value of Provident Fund according to given formula
MA	float	Storing value of Medical Allowance according to given formula
NP	float	Storing value of Net Pay according to given formula
GP	float	Storing value of Gross Pay according to given formula
AI	float	Storing value of Annual Income
ten	float	Storing value of $\wedge$ ten according to given formula
m-ten	float	Storing value of $\wedge$ monthly income $\wedge$ ten.



Program code:-

```
ans='y'
```

```
while ans=='y' or ans=='Y':
```

```
    n=int(input('Enter number of employees: '))
```

```
    for i in range (1,n+1):
```

```
        EN=input('Enter employee number: ')
```

```
        N=input('Enter employee name: ')
```

```
        D=input('Enter designation: ')
```

```
        ad=input('Enter appointment date: ')
```

```
        A=input('Enter address: ')
```

```
        Mn=input('Enter mobile number: ')
```

```
        BP=float(input('Enter basic pay: '))
```

```
        DA=117/100*BP #Calculation of Dearness Allowance
```

```
        HRA=25/100*BP #Calculation of House Rent Allowance
```

```
        PF=12/100*BP #Calculation of Provident Fund
```

```
        MA=10/100*BP #Calculation of Medical Allowance
```

```
        NP=BP+DA+HRA+MA #Calculation of Net Pay
```

```
        GP=NP-PF #Calculation of Gross Pay
```

```
        AI=GP*12 #Calculation of Annual Income
```

```
        if AI<=150000:
```

```
            tax=0
```

```
        elif 150000<=AI<=300000:
```

```
            tax=5/100*(AI-150000)
```

```
        elif 300001<=AI<=500000:
```

```
            tax=7/100*(AI-300000)+7500
```



```

elif 500001<=AI<=700000:
    tax=7/100*(AI-500000)+14000+7500
elif 700001<=AI<=1000000:
    tax=9/100*(AI-700000)+14000+14000+7500
elif AI>=1000001:
    tax=10/100*(AI-1000000)+27000+14000+14000+7500
m_tax=tax/12
print('-----')
print('          TSC SOFTWARE SOLUTION LTD.          ')
print('          KHARAGPUR          ')
print('          03222-220020          ')
print('-----')
print('          SALARY SLIP          ')
print('-----')
print('Employee Number      : ',EN)
print('Name of the Employee  : ',N)
print('Designation          : ',D)
print('Appointment Date      : ',ad)
print('Address               : ',A)
print('Mobile no.           : ',Mn)
print('Basic Pay             : ',BP)
print('Dearness Allowance    : ',DA)
print('House Rent Allowance  : ',HRA)
print('Provident Fund        : ',PF)
print('Medical Allowance     : ',MA)

```



```

print('Net Pay          :','NP)
print('Gross Pay        :','GP)
print()
print('-----')
print('          TSC SOFTWARE SOLUTION LTD.          ')
print('          KHARAGPUR          ')
print('          03222-220020          ')
print('-----')
print('          INCOME TAX SLIP          ')
print('-----')
print('Employee Number      :','EN)
print('Name of the Employee :','N)
print('Designation         :','D)
print('Annual Income       :','AI)
print('Annual Income Tax   :','tax)
print('Monthly Income Tax  :','m_tax)
print()
ans=input('Do you want to continue? Press Y/y: ')

```