

PPS12

Q1

Aim:

A company stores the details of employees such as employee id, basic pay, % of DA and HRA. Write an algorithm and a C ++ code to:

1. Get the details of the employee.
2. Display the Employee id and Total salary.

Procedure:

Input:

Employee id of employee
Basic pay of employee
Percentage of DA of employee
HRA of employee

Output:

Employee id of employee
Total salary of employee

Algorithm:

Step 1: Read inputs Employee ID, Basic Pay, Percentage of DA and HRA from user
Step 2: $\text{Salary} = \text{Basic Pay} + [(\text{DA} * 0.01) * (\text{Basic Pay})] + \text{HRA}$
Step 3: Display Employee ID and Salary
Step 4: Return 0

Code:

```
#include <iostream>
using namespace std;

int main() {
    int empid, bp;
    float da, hra, salary;

    cout<<"\nEnter Employee ID: ";
    cin>>empid;
    cout<<"Enter Basic Pay: ";
    cin>>bp;
    cout<<"Enter Percentage of DA: ";
    cin>>da;
    cout<<"Enter HRA: ";
    cin>>hra;
```

```

salary = bp + (da*0.01)*bp + hra;

cout<<"\nEmployee ID: "<<empid<<"\n";
cout<<"Total Salary: "<<salary<<"\n\n";

return 0;
}

```

OUTPUT:

The screenshot shows the Visual Studio Code editor with the file `salary.cpp` open. The code in the editor is as follows:

```

1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int empid, bp;
7     float da, hra, salary;
8
9     cout<<"\nEnter Employee ID: ";
10    cin>>empid;
11    cout<<"Enter Basic Pay: ";
12    cin>>bp;
13    cout<<"Enter Percentage of DA: ";
14    cin>>da;
15    cout<<"Enter HRA: ";
16    cin>>hra;
17
18    salary = bp + (da*0.01)*bp + hra;
19
20    cout<<"\nEmployee ID: "<<empid<<"\n";
21    cout<<"Total Salary: "<<salary<<"\n\n";
22
23    return 0;
24 }

```

The terminal output shows the execution of the program. It prompts the user to enter Employee ID, Basic Pay, Percentage of DA, and HRA. For the first employee, the input is ID: 1, Basic Pay: 50000, DA: 12, and HRA: 9000, resulting in a Total Salary of 65000. For the second employee, the input is ID: 2, Basic Pay: 39999, DA: 12, and HRA: 7199.82, resulting in a Total Salary of 51998.7.

```

PS C:\Users\Vidhi Shah\Desktop\VIITC Sem 2\C++ Lab\PPS12> g++ -o salary salary.cpp
PS C:\Users\Vidhi Shah\Desktop\VIITC Sem 2\C++ Lab\PPS12> ./salary

Enter Employee ID: 1
Enter Basic Pay: 50000
Enter Percentage of DA: 12
Enter HRA: 9000

Employee ID: 1
Total Salary: 65000

PS C:\Users\Vidhi Shah\Desktop\VIITC Sem 2\C++ Lab\PPS12> ./salary

Enter Employee ID: 2
Enter Basic Pay: 39999
Enter Percentage of DA: 12
Enter HRA: 7199.82

Employee ID: 2
Total Salary: 51998.7

PS C:\Users\Vidhi Shah\Desktop\VIITC Sem 2\C++ Lab\PPS12>

```