

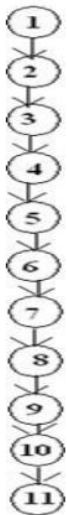
**Experiment 7 : Write a program to calculate total salary of an employee, given his salary. The slab is as follows HRA=30% of basic salary, DA=80% of basic salary, MA=100, TA=800, Income tax=700, Pf =780. Draw its path graph and find its V(G) by all three methods**

**Solution:**

```
#include<stdio.h>
int main()
{
float basic_salary, da = 0.8, hra = 0.3, ta = 800, ma = 100, it = 700, pf = 780,
gross_salary;
printf("Basic Salary: ");
scanf("%f", &basic_salary);
gross_salary = basic_salary + (da * basic_salary) + (hra * basic_salary) + ta + ma - it -
pf;
printf("Gross Salary: %f\n\n", gross_salary);
return 0;
}
```

**DD Path Graph:**

**Cyclomatic Complexity =  $6 - 5 + 2 * 1 = 3$**



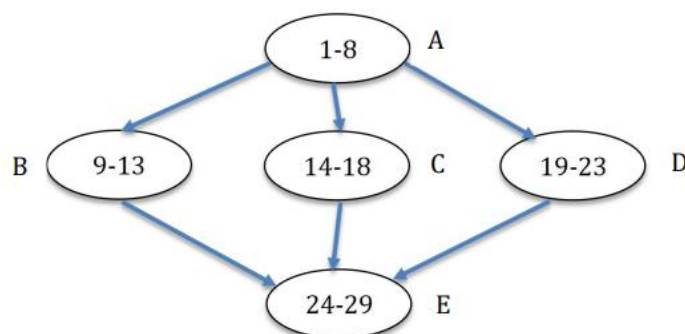
**Output:**

```
Basic Salary: 15000
Gross Salary: 30920.000000

Process returned 0 (0x0)   execution time : 2.123 s
Press any key to continue.
```

**Solution 2 :**

```
#include<stdio.h>
int main()
{
    float basic_salary, da, ta, ma = 100, it = 700, pf = 780, gross_salary;
    printf("Basic Salary: ");
    scanf("%f", &basic_salary);
    if(basic_salary <= 15000)
    {
        da = 0.6*basic_salary;
        ta = 0.1*basic_salary;
    }
    else if(basic_salary <= 20000)
    {
        da = 0.8*basic_salary;
        ta = 0.2*basic_salary;
    }
    else
    {
        da = 0.9*basic_salary;
        ta = 0.3*basic_salary;
    }
    gross_salary = basic_salary + da + ta + ma - it - pf;
    printf("Gross Salary: %f\n\n", gross_salary);
    return 0;
}
```

**DD Path Graph:****Cyclomatic Complexity =  $6 - 5 + 2 * 1 = 3$** 

**Output:**

```
Basic Salary: 15000  
Gross Salary: 24120.000000
```

```
Process returned 0 (0x0)   execution time : 3.064 s  
Press any key to continue.
```

```
Basic Salary: 20000  
Gross Salary: 38620.000000
```

```
Process returned 0 (0x0)   execution time : 9.553 s  
Press any key to continue.
```

```
Basic Salary: 30000  
Gross Salary: 64620.000000
```

```
Process returned 0 (0x0)   execution time : 2.538 s  
Press any key to continue.
```