**Q. WAP using functions for the payroll system. Declare an array of records to store information of employees.**

**Develop get\_data function to read information of n employees, calc\_sal to calculate salary, and**

**print\_data function to print salary details in a tabular form.**

**This program can be implemented in two ways:**

**1. Using all data as Global data &**

**2. passing structure as parameter to the functions.**

**If the Basic Salary is less than or equal to 10000 then HRA = 8% of the basic, and DA =10% of the**

**basic. Basic Salary is less than or equal to 20000 then HRA = 16% and DA= 20%. Basic Salary is**

**greater than 20000 then HRA = 24% and DA = 30%. Gross = basic + Da + Hra**

#include <stdio.h>

struct employee

{ int age,salary,id,total,hra,da;

char name[20];

};

struct employee emp[1000];

int n;

void get\_data(int n)

{

    int i;

    for(i=1;i<=n;i++)

    {

    printf("Enter employee %d data in the format (Name Age Basic\_Salary id) : ",i);

    scanf("%s%d%d%d",&emp[i].name,&emp[i].age,&emp[i].salary,&emp[i].id);

    }

}

void calc\_salary(int n)

{

    int i;

    for(i=1;i<=n;i++)

    {

    if (emp[i].salary<=10000)

    {

        emp[i].hra=0.08\*emp[i].salary;

        emp[i].da=0.1\*emp[i].salary;

    }

    else if (emp[i].salary<=20000  && emp[i].salary>10000)

    {

        emp[i].hra=0.16\*emp[i].salary;

        emp[i].da=0.2\*emp[i].salary;

    }

    else

    {

        emp[i].hra=0.24\*emp[i].salary;

        emp[i].da=0.3\*emp[i].salary;

    }

   emp[i].total = emp[i].salary+emp[i].hra+emp[i].da;

    }

}

void print\_data(int n)

{

    int i;

printf("\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Employee Details\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("| Id | Name | Age | Basic Salary | HRA | DA | Gross Salary |\n");

for(i=1;i<=n;i++)

{

    printf("| %d | %s | %d | %d | %d | %d | %d |\n",emp[i].id,emp[i].name,emp[i].age,emp[i].salary,emp[i].hra,emp[i].da,emp[i].total);

    }

}

int main()

{

    printf("Enter the number of employees : ");

    scanf("%d",&n);

    get\_data(n);

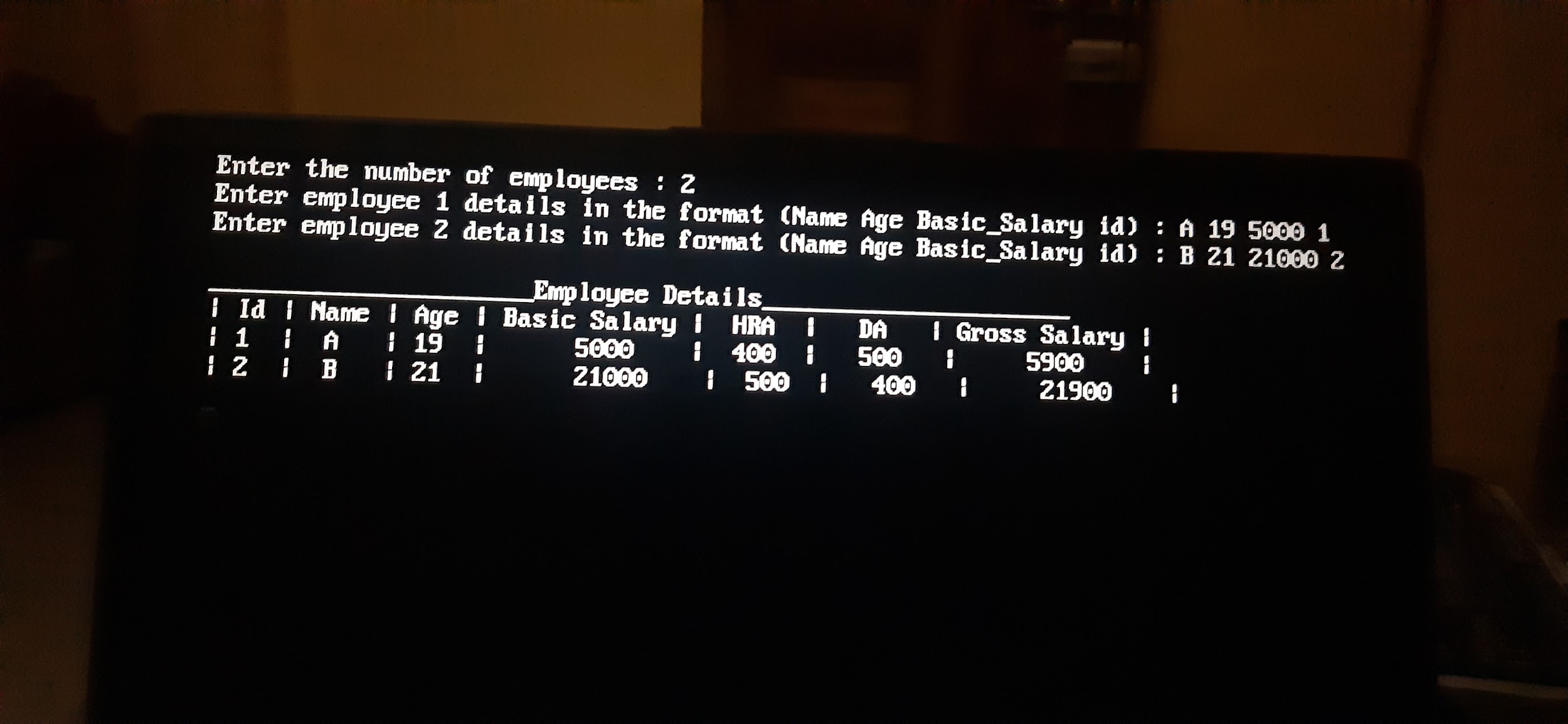
    calc\_salary(n);

    print\_data(n);

    return 0;

}

**Output :**

****