

```
#include <stdio.h>
```

```
#define NUM_EMPLOYEES 100
```

```
struct Employee {
```

```
    char name[50];
```

```
    float basicPay;
```

```
    float grossSalary;
```

```
};
```

```
void readEmployee(struct Employee * e) {
```

```
    printf("Enter employee name: ");
```

```
    scanf("%s", &e->name);
```

```
    printf("Enter basic pay: ");
```

```
    scanf("%f", &e->basicPay);
```

```
}
```

```
void calculateGross(struct Employee * e) {
```

```
    float DA = 0.52 * e->basicPay;
```

```
    e->grossSalary = e->basicPay + DA;
```

```
}
```

```
void displayEmployee(struct Employee e) {
```

```
    printf("Employee Name: %-15s Gross Salary:  
          %.2f\n", e.name, e.grossSalary);
```

```
}
```

```
int main() {
```

```
    struct Employee emp[NUM_EMPLOYEES];
```

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

```
int i, n;
```

```
printf ("Enter number of employees (max 100) : ");
scanf ("%d", &n);
```

```
if (n > 100 || n <= 0) {
```

```
    printf ("Invalid number of employees. \n");
    return 1;
}
```

```
for (i=0 ; i<n ; i++) {
```

```
    printf ("\nEnter details for Employee %d: \n",
           i+1);

```

```
    readEmployee (&emp [i]);

```

```
    calculateGross (&emp [i]);

```

```
y
```

```
printf ("\n -- Employee Gross Salary Report -- \n");
```

```
for (i=0 ; i<n ; i++) {
```

```
    displayEmployee (emp [i]);

```

```
y
```

```
return 0; }
```

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main.c

```
1 #include <stdio.h>
2 #define NUM_EMPLOYEES 100
3 struct Employee {
4     char name[50];
5     float basicPay;
6     float grossSalary;
7 };
8 void readEmployee(struct Employee *e) {
9     printf("Enter employee name: ");
10    scanf("%s", e->name);
11    printf("Enter basic pay: ");
12    scanf("%f", &e->basicPay);
13 }
14 void calculateGross(struct Employee *e) {
15     float DA = 0.52 * e->basicPay; // 52% of basic pay
16     e->grossSalary = e->basicPay + DA;
17 }
18 void displayEmployee(struct Employee e) {
19     printf("Employee Name: %-15s Gross Salary: %.2f\n", e.name, e.grossSalary);
20 }
21 int main() {
22     struct Employee emp[NUM_EMPLOYEES];
23     int i, n;
```

Output

Clear

```
Enter number of employees (max 100): 4
Enter details for Employee 1:
Enter employee name: NEHA
Enter basic pay: 20000
Enter details for Employee 2:
Enter employee name: PALAK
Enter basic pay: 15000
Enter details for Employee 3:
Enter employee name: RIYA
Enter basic pay: 25000
Enter details for Employee 4:
Enter employee name: raj
Enter basic pay: 45600
--- Employee Gross Salary Report ---
Employee Name: NEHA           Gross Salary: 30400.00
Employee Name: PALAK          Gross Salary: 22800.00
Employee Name: RIYA            Gross Salary: 38000.00
Employee Name: raj             Gross Salary: 69312.00
```

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main.c

```
19 printf("Employee Name: %-15s Gross Salary: %.2f\n", e.name, e
20 .grossSalary);
21 }
22 struct Employee emp[NUM_EMPLOYEES];
23 int i, n;
24
25 printf("Enter number of employees (max 100): ");
26 scanf("%d", &n);
27
28 if (n > 100 || n <= 0) {
29     printf("Invalid number of employees.\n");
30     return 1;
31 }
32 for (i = 0; i < n; i++) {
33     printf("\nEnter details for Employee %d:\n", i + 1);
34     readEmployee(&emp[i]);
35     calculateGross(&emp[i]);
36 }
37 printf("\n--- Employee Gross Salary Report ---\n");
38 for (i = 0; i < n; i++) {
39     displayEmployee(emp[i]);
40 }
41
42 return 0;}
```

Output

Clear

```
Enter number of employees (max 100): 4
Enter details for Employee 1:
Enter employee name: NEHA
Enter basic pay: 20000
Enter details for Employee 2:
Enter employee name: PALAK
Enter basic pay: 15000
Enter details for Employee 3:
Enter employee name: RIYA
Enter basic pay: 25000
Enter details for Employee 4:
Enter employee name: raj
Enter basic pay: 45600
--- Employee Gross Salary Report ---
Employee Name: NEHA           Gross Salary: 30400.00
Employee Name: PALAK          Gross Salary: 22800.00
Employee Name: RIYA            Gross Salary: 38000.00
Employee Name: raj             Gross Salary: 69312.00
```

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