

1.Employee Payroll System

Objective:

To store employee details such as ID, Name, Salary, and Deductions using arrays and calculate the net salary.

Program (Example in C Language):

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

```
int main() {
```

```
    int emplID[100], deductions[100];
```

```
    char name[100][50];
```

```
    float salary[100], netSalary[100];
```

```
    int count = 0, choice, id, i;
```

```
    while(1) {
```

```
        printf("\n--- Employee Payroll System ---\n");
```

```
        printf("1. Add Employee\n");
```

```
        printf("2. Display Payroll\n");
```

```
        printf("3. Search Employee by ID\n");
```

```
        printf("4. Exit\n");
```

```
        printf("Enter your choice:");
```

```
        scanf("%d", &choice);
```

```
        if (choice == 1) {
```

```
            printf("\nEnter Employee ID: ");
```

```
            scanf("%d", &emplID[count]);
```

```
            printf("Enter Name:");
```

```
            scanf("%s", name[count]);
```

```
            printf("Enter Salary:");
```

```
            scanf("%f", &salary[count]);
```

```
            printf("Enter Deductions: ");
```

```
            scanf("%d", &deductions[count]);
```

```
            netSalary[count] = salary[count] - deductions[count];
```

```

        count++;

        printf("Employee added successfully!\n");
    }

    elseif (choice == 2) {
        printf("\n--- Payroll Details ---\n");
        printf("ID\tName\tSalary\tDeductions\tNet Salary\n");
        for (i = 0; i < count; i++) {
            printf("%d\t%s\t%.2f\t%d\t%.2f\n",
                emplID[i], name[i], salary[i], deductions[i], netSalary[i]);
        }
    }

    elseif (choice == 3) {
        printf("\nEnter Employee ID to Search: ");
        scanf("%d", &id);
        for (i = 0; i < count; i++) {
            if (emplID[i] == id) {
                printf("\nEmployee Found!\n");
                printf("ID: %d\nName: %s\nSalary: %.2f\nDeductions: %d\nNet
Salary: %.2f\n",
                    emplID[i], name[i], salary[i], deductions[i], netSalary[i]);
                break;
            }
        }
        if (i == count)
            printf("Employee Not Found!\n");
    }

    elseif (choice == 4) {
        printf("\nExiting Program...\n");
        break;
    }

    else {
        printf("Invalid Choice! Try Again.\n");
    }
}

return 0;
}

```

Applications:

- ✓ Calculating Salaries:

Automatically computes net salary by subtracting deductions from gross salary.

- ✓ Managing Deductions:

Useful for tax, loan, PF, or insurance-based deductions.

- ✓ Generating Pay Stubs:

Stores and displays salary details for each employee.

- ✓ Used in:

Small companies

Attendance-based salary processing

HR departments

Local business payroll management