

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 empID[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.AddEmployee\n");
        printf("2.DisplayPayroll\n");
        printf("3.SearchEmployeebyID\n");
        printf("4.Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        if(choice == 1){
            printf("\nEnter Employee ID: ");
            scanf("%d", &empID[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");
    }

}

return0;
}

```

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