

Name : Prathmesh Prashant Ushkewar

Registration Number : 2022BIT045

Subject : Discrete Mathematics

Group : C

Email : 2022bit045@sggs.ac.in

Assignment : 1

Q1) Employee Record

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

```
#include <string.h>
```

```
struct Employee {
```

```
    char n[50];
```

```
    char d[50];
```

```
    char p[15];
```

```
    char add[100];
```

```
    float sal;
```

```
};
```

```
void addEmployee(struct Employee *employee) {
```

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

```
    scanf("%[^\n]", employee->n);
```

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

```
    scanf("%[^\n]", employee->d);
```

```
    printf("Enter employee phone number: ");
```

```
    scanf("%s", employee->p);
```

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

```
    scanf("%[^\n]", employee->add);
```

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

```
    scanf("%f", &employee->sal);
```

```
}
```

```
void displayEmployee(const struct Employee *employee) {
```

```
    printf("Name: %s\n", employee->n);
```

```
    printf("Designation: %s\n", employee->d);
```

```
    printf("Phone Number: %s\n", employee->p);
```

```
    printf("Address: %s\n", employee->add);
```

```
    printf("Salary: %.2f\n", employee->sal);
```

```
}
```

```

int main() {
    int m;

    printf("Enter the number of employees: ");
    scanf("%d", &m);

    struct Employee employees[m];

    for (int i = 0; i < m; i++) {
        printf("\nAdding details for Employee %d:\n", i + 1);
        addEmployee(&employees[i]);
    }

    printf("\nEmployee Record System\n");

    for (int i = 0; i < m; i++) {
        printf("\nDisplaying details for Employee %d:\n", i + 1);
        displayEmployee(&employees[i]);
    }

    return 0;
}

```

Output :

```

Enter the number of employees: 2

Adding details for Employee 1:
Enter employee name: Pratham ushkewar
Enter employee designation: Chief Exicutive Officer
Enter employee phone number: 7276191794
Enter employee address: Naik Nagar,Nanded
Enter employee salary: 1000000

Adding details for Employee 2:
Enter employee name: Chintu
Enter employee designation: Project Manager
Enter employee phone number: 9000000000
Enter employee address: Naik Nagar,Nanded
Enter employee salary: 100000

Employee Record System

Displaying details for Employee 1:
Name: Pratham ushkewar
Designation: Chief Exicutive Officer
Phone Number: 7276191794
Address: Naik Nagar,Nanded
Salary: 1000000.00

Displaying details for Employee 2:
Name: Chintu
Designation: Project Manager
Phone Number: 9000000000
Address: Naik Nagar,Nanded
Salary: 100000.00

Process returned 0 (0x0)   execution time : 170.751 s
Press any key to continue.

```

Q2) Student Record

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

```
struct Student {  
    char n[50];  
    int regno;  
    char add[100];  
    long long int mobile;  
};
```

```
void inputStudentRecord(struct Student *s) {  
    printf("Enter student name: ");  
    scanf(" %[^\\n]", s->n);  
  
    printf("Enter registration number: ");  
    scanf("%d", &s->regno);  
  
    printf("Enter address: ");  
    scanf(" %[^\\n]", s->add);  
  
    printf("Enter mobile number: ");  
    scanf("%lld", &s->mobile);  
}
```

```
void displayStudentRecord(struct Student s) {  
    printf("Student Name: %s\\n", s.n);  
    printf("Registration Number: %d\\n", s.regno);  
    printf("Address: %s\\n", s.add);  
    printf("Mobile Number: %lld\\n", s.mobile);  
}
```

```
int main() {  
    int m;  
  
    printf("Enter the number of students: ");  
    scanf("%d", &m);  
  
    struct Student studentRecords[m];  
  
    for (int i = 0; i < m; i++) {  
        printf("\\nEnter details for student %d:\\n", i + 1);  
        inputStudentRecord(&studentRecords[i]);  
    }
```

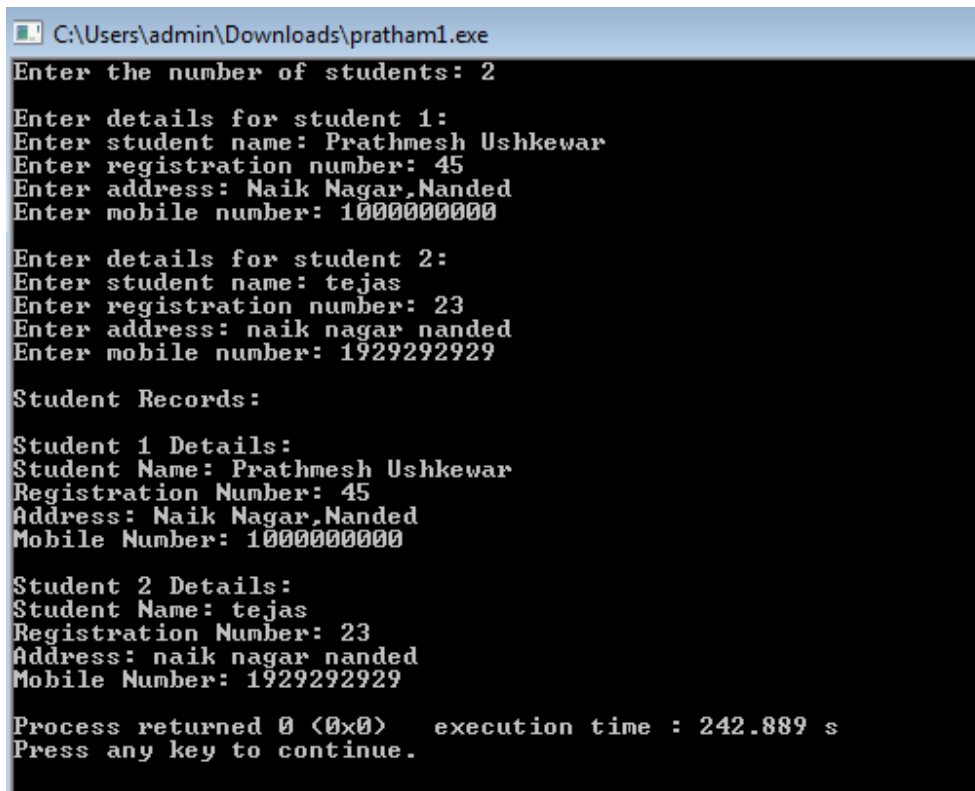
```

printf("\nStudent Records:\n");
for (int i = 0; i < m ; i++) {
    printf("\nStudent %d Details:\n", i + 1);
    displayStudentRecord(studentRecords[i]);
}

return 0;
}

```

Output :



```

C:\Users\admin\Downloads\pratham1.exe
Enter the number of students: 2

Enter details for student 1:
Enter student name: Prathmesh Ushkewar
Enter registration number: 45
Enter address: Naik Nagar,Nanded
Enter mobile number: 1000000000

Enter details for student 2:
Enter student name: tejas
Enter registration number: 23
Enter address: naik nagar nanded
Enter mobile number: 1929292929

Student Records:

Student 1 Details:
Student Name: Prathmesh Ushkewar
Registration Number: 45
Address: Naik Nagar,Nanded
Mobile Number: 1000000000

Student 2 Details:
Student Name: tejas
Registration Number: 23
Address: naik nagar nanded
Mobile Number: 1929292929

Process returned 0 (0x0)   execution time : 242.889 s
Press any key to continue.

```