

PROGRAM ON HOSPITAL MANAGEMENT.....

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
// Define a structure for patient information
struct Patient {
    char name[50];
    int age;
    char gender;
    char disease[50];
};

// Function prototypes
void addPatient(struct Patient *patients, int *patientCount);
void displayPatients(struct Patient *patients, int patientCount);
int main() {
    // Maximum number of patients the system can handle
    const int maxPatients = 100;
    // Array to store patient information
    struct Patient patients[maxPatients];

    // Variable to keep track of the number of patients
    int patientCount = 0;
    int choice;
    do {
        // Display menu
        printf("\nHospital Management System\n");
        printf("1. Add Patient\n");
        printf("2. Display Patients\n");
```

```

printf("3. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
switch (choice) {
    case 1:
        addPatient(patients, &patientCount);
        break;
    case 2:
        displayPatients(patients, patientCount);
        break;
    case 3:
        printf("Exiting the program. Thank you!\n");
        break;
    default:
        printf("Invalid choice. Please enter a valid option.\n");
}
} while (choice != 3);

return 0;
}

// Function to add a new patient
void addPatient(struct Patient *patients, int *patientCount) {
    if (*patientCount < 100) {
        printf("Enter patient name: ");
        scanf("%s", patients[*patientCount].name);
        printf("Enter patient age: ");
        scanf("%d", &patients[*patientCount].age);
        printf("Enter patient gender (M/F): ");
        scanf(" %c", &patients[*patientCount].gender);
    }
}

```

```

printf("Enter patient disease: ");
scanf("%s", patients[*patientCount].disease);

(*patientCount)++;
printf("Patient added successfully!\n");
} else {
    printf("Maximum number of patients reached. Cannot add more patients.\n");
}
}

// Function to display all patients
void displayPatients(struct Patient *patients, int patientCount) {
    if (patientCount > 0) {
        printf("\nList of Patients\n");
        printf("-----\n");
        printf("Name\t\tAge\tGender\tDisease\n");
        printf("-----\n");
        for (int i = 0; i < patientCount; i++) {
            printf("%s\t\t%d\t%c\t%s\n",
                patients[i].name, patients[i].age, patients[i].gender, patients[i].disease);
        }
        printf("-----\n");
    } else {
        printf("No patients to display.\n");
    }
}

```

```
Hospital Management System
1. Add Patient
2. Display Patients
3. Exit
Enter your choice: 1
Enter patient name: Sharma
Enter patient age: 54
Enter patient gender (M/F): M
Enter patient disease: Malaria
Patient added successfully!
```

```
Hospital Management System
1. Add Patient
2. Display Patients
3. Exit
Enter your choice: 1
Enter patient name: Shardha
Enter patient age: 24
Enter patient gender (M/F): f
Enter patient disease: Fever
Patient added successfully!
```

```
Hospital Management System
1. Add Patient
2. Display Patients
3. Exit
Enter your choice: 1
Enter patient name: Radhika
Enter patient age: 30
Enter patient gender (M/F): F
Enter patient disease: Cold
Patient added successfully!
```

```
Hospital Management System
1. Add Patient
2. Display Patients
3. Exit
Enter your choice: 1
Enter patient name: Ali
Enter patient age: 34
Enter patient gender (M/F): M
Enter patient disease: Flu
Patient added successfully!
```

```
Hospital Management System
1. Add Patient
2. Display Patients
3. Exit
Enter your choice: 2
```

List of Patients

Name	Age	Gender	Disease
Sharma	54	M	Malaria
Shardha	24	f	Fever
Radhika	30	F	Cold
Ali	34	M	Flu

