**Write a program to take the information of students and display them using struct and pointers.**

**Code:**

#include <stdio.h>

#include <string.h>

struct StudentInfo

{

int rollNumber;

float averageGPA;

char fullName[20];

};

void main()

{

int numStudents;

printf("Enter the number of students: ");

scanf("%d", &numStudents);

struct StudentInfo students[numStudents];

struct StudentInfo \*infoPointers[numStudents];

for (int i = 0; i < numStudents; i++)

{

infoPointers[i] = &students[i];

printf("Enter details for student %d:\n", i + 1);

printf("Roll Number: ");

scanf("%d", &infoPointers[i]->rollNumber);

printf("Average GPA: ");

scanf("%f", &infoPointers[i]->averageGPA);

printf("Full Name: ");

scanf("%s", infoPointers[i]->fullName);

}

printf("\nStudent Information:\n");

for (int i = 0; i < numStudents; i++)

{

printf("Student Address: %p\n", infoPointers[i]);

printf("Roll Number: %d\n", infoPointers[i]->rollNumber);

printf("Average GPA: %.2f\n", infoPointers[i]->averageGPA);

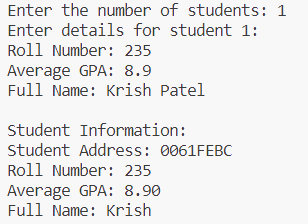
printf("Full Name: %s\n", infoPointers[i]->fullName);

printf("\n");

}

}

**Output:**



**Write a program to take the information of any number of students as user wants and display it.**

**Code:**

#include <stdio.h>

#include <conio.h>

#include <string.h>

struct student

{

int roll;

float cpi;

char name[20];

};

void main()

{

int num\_students;

printf("Enter the number of students: ");

scanf("%d", &num\_students);

struct student students[num\_students];

struct student \*ptr;

ptr = students;

for (int i = 0; i < num\_students; i++)

{

printf("Enter details for student %d:\n", i + 1);

printf("Roll number: ");

scanf("%d", &students[i].roll);

printf("CPI: ");

scanf("%f", &students[i].cpi);

printf("Name: ");

scanf("%s", students[i].name);

}

for (int i = 0; i < num\_students; i++)

{

printf("\nDetails for student %d:\n", i + 1);

printf("Roll Number: %d\n", ptr->roll);

printf("CPI: %f\n", ptr->cpi);

printf("Name: %s\n", ptr->name);

ptr++; // Move the pointer to the next student record

}

}

**Output:**  
