Answer :

#include <stdio.h>

#include <string.h>

#define MAX\_STUDENTS 10

struct Student {

int id;

char name[50];

int age;

char address[100];

};

int main() {

struct Student students[MAX\_STUDENTS];

printf("Enter information for %d students:\n", MAX\_STUDENTS);

for (int i = 0; i < MAX\_STUDENTS; i++) {

printf("\nStudent %d:\n", i + 1);

printf("Enter ID: ");

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

printf("Enter name: ");

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

do {

printf("Enter age (between 18 and 24): ");

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

} while (students[i].age < 18 || students[i].age > 24);

printf("Enter address: ");

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

}

int searchId;

printf("\nEnter ID to search: ");

scanf("%d", &searchId);

int found = 0;

for (int i = 0; i < MAX\_STUDENTS; i++) {

if (students[i].id == searchId) {

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

printf("ID: %d\n", students[i].id);

printf("Name: %s\n", students[i].name);

printf("Age: %d\n", students[i].age);

printf("Address: %s\n", students[i].address);

found = 1;

break;

}

}

if (!found) {

printf("Student with ID %d not found.\n", searchId);

}

return 0;

}