#include <stdio.h>

#include <stdlib.h>

struct Student {

char name[50];

int age;

int marks[3];

float average;

};

int main() {

int n;

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

scanf("%d", &n);

struct Student\* students = (struct Student\*)malloc(n \* sizeof(struct Student));

if (students == NULL) {

printf("Memory allocation failed.\n");

return 1;

}

// Input student details

for (int i = 0; i < n; i++) {

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

printf("Name: ");

scanf(" %[^\n]", students[i].name);

printf("Age: ");

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

printf("Enter marks of 3 subjects: ");

for (int j = 0; j < 3; j++) {

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

}

// Calculate average marks

float totalMarks = 0;

for (int j = 0; j < 3; j++) {

totalMarks += students[i].marks[j];

}

students[i].average = totalMarks / 3;

}

// Display student details

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

for (int i = 0; i < n; i++) {

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

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

printf("Marks: %d %d %d\n", students[i].marks[0], students[i].marks[1], students[i].marks[2]);

printf("Average Marks: %.2f\n", students[i].average);

}

free(students);

return 0;

}

A screenshot of a computer

Description automatically generated