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#include <stdio.h>
#include <stdlib.h>
#include <string.h>

/* student structure */
struct student {
    char name[32];
    int age, rollNo;
    int m1, m2, m3;
    float average;
};

int main() {
    struct student s1;
    int i, n, m1, m2, m3, age, flag, rollNo, ch;
    char name[32];
    float average;
    FILE *fp;

    system("cd Desktop");
    fp = fopen("student.txt", "w");
    if(fp==NULL)
    {
        system("touch student.txt");
    }

    printf("1:Get data from file\n");
    printf("2:Add new record\n");
    printf("Enter choies:");
    scanf("%d",&ch);

    printf("Enter the number of students:");
    scanf("%d", &n);

    switch(ch)
    {
        case 2:
            fp = fopen("student.txt", "w");

            for (i = 0; i < n; i++) {
                printf("\nEnter student %d details:\n", i + 1);
                getchar();
                printf("Name: ");
                fgets(name, 32, stdin);
                name[strlen(name) - 1] = '\0';
                printf("Roll Number: ");
                scanf("%d", &rollNo);
                printf("Age: ");
                scanf("%d", &age);
                printf("Mark1, Mark2, Mark3:");
                scanf("%d%d%d", &m1, &m2, &m3);
                average = (1.0 * (m1 + m2 + m3)) / 3;

                fprintf(fp, "%d %s %d %d %d %d %f\n",
                    rollNo, name, age, m1, m2, m3, average);
            }
        }
    }

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fclose(fp);
    break;
case 1:

fp = fopen("student.txt", "r");

    while (1) {
        printf("\nEnter the desired student roll number:");
        scanf("%d", &rollNo);
        flag = 0;
        while (!feof(fp)) {
            fscanf(fp, "%d %s %d %d %d %d %f", &s1.rollNo,
                s1.name, &s1.age, &s1.m1, &s1.m2,
                &s1.m3, &s1.average);

            if (s1.rollNo == rollNo) {
                printf("Details of %s:\n", s1.name);
                printf("RollNo: %d\n", s1.rollNo);
                printf("Age: %d\n", s1.age);
                printf("Mark1: %d\n", s1.m1);
                printf("Mark2: %d\n", s1.m2);
                printf("Mark3: %d\n", s1.m3);
                printf("Average: %f\n", s1.average);
                flag = 1;
                break;
            }
        }

        if (!flag) {
            printf("Record Not Found!!\n");
        }

        rewind(fp);
        printf("Do you want to continue(1/0):");
        scanf("%d", &flag);

        if (!flag)
            break;
    }

    fclose(fp);
    break;
    default: printf("\nWrong choies....");
}

return(0);
}

```