

# DS LAB

```
1) #include <stdio.h>
int main()
{
    int s, i;
    printf("\n Enter number of students \n");
    scanf("%d", &s);

    struct students
    {
        char id [20];
        int age;
        float marks;
    } stud1[s];
    for(i=0; i<s; i++)
    {
        printf("\n Enter student %d details: \n", i+1);
        printf("Student ID - ");
        scanf("%s", &stud1[i].id);
        printf("Age - ");
        scanf("%d", &stud1[i].age);
        printf("Marks - ");
        scanf("%f", &stud1[i].marks);
        if(stud1[i].age > 20 && stud1[i].marks >= 0
            && stud1[i].marks <= 100)
        {
            printf("Data is valid \n");
            if(stud1[i].marks >= 65)
                printf("Student %d qualified \n", i+1);
            else
                printf("Student %d Not qualified \n", i+1);
        }
        else
            printf("Student %d data invalid \n", i+1);
    }
}
```