

## **WEEK1:USING STRUCTURES**

### **CODE:**

```
#include <stdio.h>

#include<string.h>

struct student
{
    char name[20];

    int age;

    float marks;

};

int main()
{
    struct student stud[100];

    int i,n,c=0;

    char list[100][20];

    printf("Enter number of students:\n");

    scanf("%d",&n);

    for(i=0;i<n;i++)
    {
        printf("Enter name of student %d:\n",i+1);

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

        printf("Enter Age :\n");

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

```

printf("Enter Marks :\n");
scanf("%f",&stud[i].marks);
if(stud[i].age<20 || stud[i].marks<0 || stud[i].marks>100)
{
    printf("INVALID DATA!\n");
    continue;
}
if(stud[i].marks<65)
{
    printf("Student NOT QUALIFIED for admission\n");
}
else{
    printf("STUDENT QUALIFIED for admission!\n");
    strcpy(list[c],stud[i].name);
    c=c+1;
}

}

printf("LIST OF QUALIFIED STUDENTS:\n");
printf("-----\n");
for(i=0;i<c;i++)
{
    printf("%d ) %s \n",i+1,list[i]);
}

}

```

## **OUTPUT:**

```
Enter number of students:
3
Enter name of student 1:
abhi
Enter Age :
23
Enter Marks :
64
Student NOT QUALIFIED for admission
Enter name of student 2:
sumith
Enter Age :
23
Enter Marks :
99
STUDENT QUALIFIED for admission!
Enter name of student 3:
rithvi
Enter Age :
12
Enter Marks :
99
INVALID DATA!
LIST OF QUALIFIED STUDENTS:
-----
1 ) sumith
```

---