

**Aim:**

Write a C Program to display **grade** based on **6** subject marks using an if-else-if ladder.

marks  $\geq 90\%$  is grade A

marks  $\geq 80\%$  and  $< 90\%$  is grade B.

marks  $\geq 70\%$  and  $< 80\%$  is grade C.

marks  $\geq 60\%$  and  $< 70\%$  is grade D.

marks  $\geq 40\%$  and  $< 60\%$  is grade E.

marks  $< 40\%$  is grade Fail.

Sample Input and Output:

```
Enter the six subjects marks : 60 50 70 90 55 69
Total marks : 394
Percentage : 65.666664
Grade : D
```

**Source Code:**

grade.c

```
#include<stdio.h>
void main()
{
    int S1,S2,S3,S4,S5,S6,total;
    float avg;
    printf("Enter the six subjects marks : ");
    scanf("%d%d%d%d%d%d",&S1,&S2,&S3,&S4,&S5,&S6);
    total=S1+S2+S3+S4+S5+S6;
    avg=(float)total/6;
    printf("Total marks : %d\n",total);
    printf("Percentage : %f\n",avg);
    if(avg<40)
    printf("Grade : Fail\n");
    else if(avg<60)
    printf("Grade : E\n");
    else if(avg<70)
    printf("Grade : D\n");
    else if (avg<80)
    printf("Grade : C\n");
    else if(avg<90)
    printf("Grade : B\n");
    else
    printf("Grade : A\n");
}
```

## Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the six subjects marks : 60 50 70 90 55 69
Total marks : 394
Percentage : 65.666664
Grade : D

Test Case - 2
User Output
Enter the six subjects marks : 100 90 28 45 33 80
Total marks : 376
Percentage : 62.666668
Grade : D

Test Case - 3
User Output
Enter the six subjects marks : 90 89 85 97 79 88
Total marks : 528
Percentage : 88.000000
Grade : B

Test Case - 4
User Output
Enter the six subjects marks : 20 28 30 25 33 38
Total marks : 174
Percentage : 29.000000
Grade : Fail

Test Case - 5
User Output
Enter the six subjects marks : 65 70 75 60 80 85
Total marks : 435
Percentage : 72.500000
Grade : C