if-else-if

Aim:

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

marks >= 90% is grade A

marks >= 80% and < 90% is grade B.

marks >= 70% and < 80% is grade C.

marks >= 60% and < 70% is grade D.

marks >= 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
```

Exp. Name: Write a C program to display Grade based on 6 subject marks using

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");
}
```

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