S.No: 9	Exp. Name: ***Write a C program to display Grade based on 6 subject marks using if-else-if***	Date:2023-01-04

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
```

Source Code:

grade.c

```
#include<stdio.h>
#include<math.h>
int main()
{
   int s_1,s_2,s_3,s_4,s_5,s_6;
   float total,percentage;
   printf("Enter the six subjects marks : ");
   scanf("%d%d%d%d%d%d",&s_1,&s_2,&s_3,&s_4,&s_5,&s_6);
   total=s_1+s_2+s_3+s_4+s_5+s_6;
   printf("Total marks : %.0f\n",total);
   percentage=(total*100)/600;
   printf("Percentage : %f\n",percentage);
   if(percentage>90&&percentage<=100)
   {
     printf("Grade : A\n");
 }
   else if(percentage>80&&percentage<=90)
   {
     printf("Grade : B\n");
 }
   else if(percentage>=70&&percentage<=80)
   {
      printf("Grade : C\n");
 }
   else if(percentage>=60&&percentage<70)
```

```
    {
       printf("Grade : D\n");
  }
    else if(percentage>=40&&percentage<60)
    {
       printf("Grade : E\n");
  }
    else
    {
       printf("Grade : Fail\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