TW:- 8

Design, develop, code and run the program in any suitable language to implement an absolute letter grading procedure, making suitable assumptions. Determine the basis paths and using them derive different test cases, execute these test cases and discuss the test results.

PROGRAM CODE:

#include<stdio.h>

main()

{

float kan,eng,hindi,maths,science, sst,avmar;

printf("Letter Grading\n");

printf("SSLC Marks Grading\n");

printf("Enter the marks for Kannada:");

scanf("%f",&kan);

printf("enter the marks for English:");

scanf("%f",&eng);

printf("enter the marks for Hindi:");

scanf("%f",&hindi);

printf("enter the marks for Maths");

scanf("%f",&maths);

printf("enter the marks for Science:");

scanf("%f",&science);

printf("enter the marks for Social Science:");

scanf("%f",&sst);

avmar=(kan+eng+hindi+maths+science+sst)/6.25;

printf("the average marks are=%f\n",avmar);

if((avmar<35)&&(avmar>0))

printf("fail");

else if((avmar<=40)&&(avmar>35))

printf("Grade C");

else if((avmar<=50)&&(avmar>40))

printf("Grade C+");

else if((avmar<=60)&&(avmar>50))

printf("Grade B");

else if((avmar<=70)&&(avmar>60))

printf("Grade B+");

else if((avmar<=80)&&(avmar>70))

printf("Grade A");

else if((avmar<=100)&&(avmar>80))

printf("Grade A+");

}

**Test case 1:**

Letter Grading

SSLC Marks Grading

Enter the marks for Kannada: 25

25

enter the marks for English:28

enter the marks for Hindi:27

enter the marks for Maths 30

30

enter the marks for Science:34

enter the marks for Social Science:55

the average marks are=31.840000

fail

**Test case 2:**

Letter Grading

SSLC Marks Grading

Enter the marks for Kannada:30

enter the marks for English:21

enter the marks for Hindi:33

enter the marks for Maths 72

72

enter the marks for Science:56

enter the marks for Social Science:77

the average marks are=46.240002

Grade C+