

Md. Maruf Rayhan

Reg: 232-35-623

Id: 0242320005341623

Section: 41-J2

Assessment – 01

Date: 29.08.2024

Ques: Write a C program that takes the marks of a student as input and calculates the corresponding grade according to the DIU grading pattern.

Code:

```
#include <stdio.h>

void calculateGrade(double marks)
{
    if (marks >= 80)
    {
        printf("A+\n");
    }
    else if (marks >= 75)
    {
        printf("A\n");
    }
    else if (marks >= 70)
    {
        printf("A-\n");
    }
    else if (marks >= 65)
    {
        printf("B+\n");
    }
    else if (marks >= 60)
    {
        printf("B\n");
    }
    else if (marks >= 55)
```

```
{  
    printf("B-\n");  
}  
else if (marks >= 50)  
{  
    printf("C+\n");  
}  
else if (marks >= 45)  
{  
    printf("C\n");  
}  
else if (marks >= 40)  
{  
    printf("D\n");  
}  
else  
{  
    printf("F\n");  
}  
}
```

```
int main()  
{  
    int noOfSubjects;  
    double subjectMarks;  
    printf("Enter the number of subjects: ");  
    scanf("%d", &noOfSubjects);
```

```

for (int i = 0; i < noOfSubjects; i++)
{
    printf("\n");
    printf("Enter the marks of subject %d: ", i + 1);
    scanf("%lf", &subjectMarks);
    printf("Grade of subject %d is: ", i + 1);
    calculateGrade(subjectMarks);
    printf("\n");
}

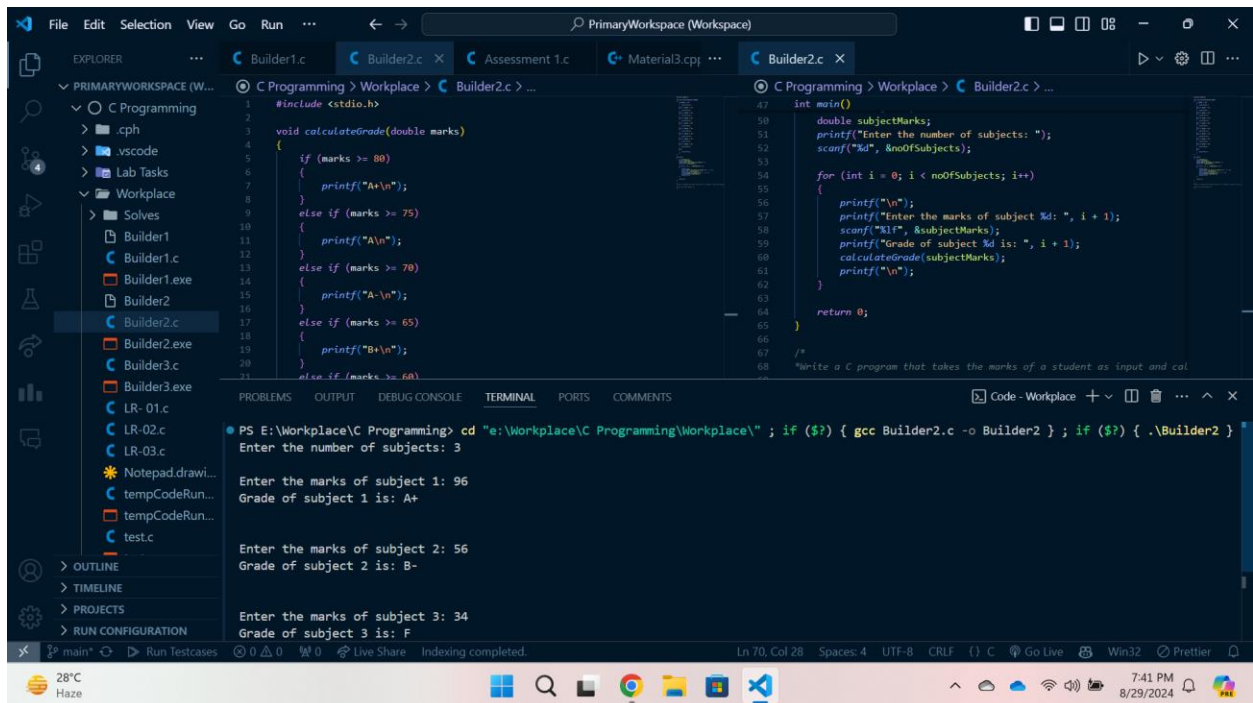
return 0;
}

/*
*Write a C program that takes the marks of a student as input and calculates the
corresponding grade according to the DIU grading pattern.

Author: Md. Maruf Rayhan :D
*/

```

Attachments:



```

1  #include <stdio.h>
2
3  void calculateGrade(double marks)
4  {
5      if (marks >= 80)
6      {
7          printf("A+\n");
8      }
9      else if (marks >= 75)
10     {
11         printf("A\n");
12     }
13     else if (marks >= 70)
14     {
15         printf("A-\n");
16     }
17     else if (marks >= 65)
18     {
19         printf("B+\n");
20     }
21     else if (marks >= 60)
22     {
23         printf("B\n");
24     }
25     else if (marks >= 55)
26     {
27         printf("B-\n");
28     }
29     else if (marks >= 50)
30     {
31         printf("C+\n");
32     }
33     else if (marks >= 45)
34     {
35         printf("C\n");
36     }
37     else if (marks >= 40)
38     {
39         printf("D\n");
40     }
41     else
42     {
43         printf("F\n");
44     }
45 }
46
47 int main()
48 {
49     int noOfSubjects;
50     double subjectMarks;
51     printf("Enter the number of subjects: ");
52     scanf("%d", &noOfSubjects);
53
54     for (int i = 0; i < noOfSubjects; i++)
55     {
56         printf("\n");
57         printf("Enter the marks of subject %d: ", i + 1);
58         scanf("%lf", &subjectMarks);
59         printf("Grade of subject %d is: ", i + 1);
60         calculateGrade(subjectMarks);
61         printf("\n");
62     }
63
64     return 0;
65 }
66
67 /*
68  *Write a C program that takes the marks of a student as input and calculates the corresponding grade according to the DIU grading pattern.
69  *
70  *Author: Md. Maruf Rayhan :D
71  */

```