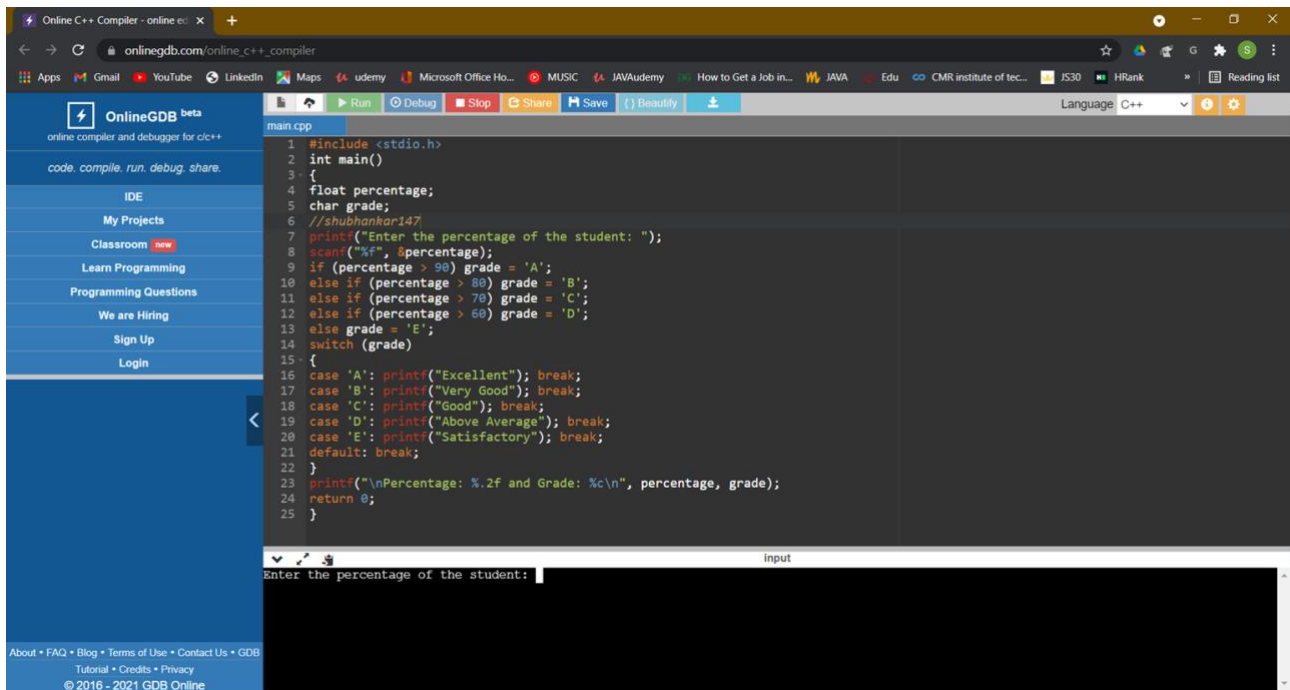


Absolute letter grading procedure

Code



The screenshot shows the OnlineGDB web interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (with a 'new' badge), Learn Programming, Programming Questions, We are Hiring, Sign Up, and Login. The main editor area displays a C++ program named 'main.cpp'. The program includes <stdio.h> and defines a main function. It prompts the user to 'Enter the percentage of the student:' and reads the input into a variable 'percentage'. It then uses a series of if-else statements to assign a grade: 'A' for percentages greater than 90, 'B' for 80-90, 'C' for 70-80, 'D' for 60-70, and 'E' for 60 or less. A switch statement is also used to print the corresponding grade description: 'Excellent' for 'A', 'Very Good' for 'B', 'Good' for 'C', 'Above Average' for 'D', and 'Satisfactory' for 'E'. The program prints the percentage and grade, and returns 0. The bottom of the interface shows the input field with the prompt 'Enter the percentage of the student:' and a text area for the output.

```
1 #include <stdio.h>
2 int main()
3 {
4     float percentage;
5     char grade;
6     //shubhankar147
7     printf("Enter the percentage of the student: ");
8     scanf("%f", &percentage);
9     if (percentage > 90) grade = 'A';
10    else if (percentage > 80) grade = 'B';
11    else if (percentage > 70) grade = 'C';
12    else if (percentage > 60) grade = 'D';
13    else grade = 'E';
14    switch (grade)
15    {
16        case 'A': printf("Excellent"); break;
17        case 'B': printf("Very Good"); break;
18        case 'C': printf("Good"); break;
19        case 'D': printf("Above Average"); break;
20        case 'E': printf("Satisfactory"); break;
21        default: break;
22    }
23    printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
24    return 0;
25 }
```

OUTPUT

Online C++ Compiler - online ed...
onlinegdb.com/online_c++_compiler

OnlineGDB beta
online compiler and debugger for c/c++
code. compile. run. debug. share.

IDE
My Projects
Classroom new
Learn Programming
Programming Questions
We are Hiring
Sign Up
Login

main.cpp

```
1 #include <stdio.h>
2 int main()
3 {
4     float percentage;
5     char grade;
6     //shubhankar147
7     printf("Enter the percentage of the student: ");
8     scanf("%f", &percentage);
9     if (percentage > 90) grade = 'A';
10    else if (percentage > 80) grade = 'B';
11    else if (percentage > 70) grade = 'C';
12    else if (percentage > 60) grade = 'D';
13    else grade = 'E';
14    switch (grade)
15    {
16    case 'A': printf("Excellent"); break;
17    case 'B': printf("Very Good"); break;
18    case 'C': printf("Good"); break;
19    case 'D': printf("Above Average"); break;
20    case 'E': printf("Satisfactory"); break;
21    default: break;
22    }
23    printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
24    return 0;
25 }
```

Input

Enter the percentage of the student: 98
Excellent
Percentage: 98.00 and Grade: A

...Program finished with exit code 0
Press ENTER to exit console.

About • FAQ • Blog • Terms of Use • Contact Us • GDB
Tutorial • Credits • Privacy
© 2016 - 2021 GDB Online

Online C++ Compiler - online ed...
onlinegdb.com/online_c++_compiler

OnlineGDB beta
online compiler and debugger for c/c++
code. compile. run. debug. share.

IDE
My Projects
Classroom new
Learn Programming
Programming Questions
We are Hiring
Sign Up
Login

main.cpp

```
1 #include <stdio.h>
2 int main()
3 {
4     float percentage;
5     char grade;
6     //shubhankar147
7     printf("Enter the percentage of the student: ");
8     scanf("%f", &percentage);
9     if (percentage > 90) grade = 'A';
10    else if (percentage > 80) grade = 'B';
11    else if (percentage > 70) grade = 'C';
12    else if (percentage > 60) grade = 'D';
13    else grade = 'E';
14    switch (grade)
15    {
16    case 'A': printf("Excellent"); break;
17    case 'B': printf("Very Good"); break;
18    case 'C': printf("Good"); break;
19    case 'D': printf("Above Average"); break;
20    case 'E': printf("Satisfactory"); break;
21    default: break;
22    }
23    printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
24    return 0;
25 }
```

Input

Enter the percentage of the student: 75
Good
Percentage: 75.00 and Grade: C

...Program finished with exit code 0
Press ENTER to exit console.

About • FAQ • Blog • Terms of Use • Contact Us • GDB
Tutorial • Credits • Privacy
© 2016 - 2021 GDB Online

Online C++ Compiler - online ex

onlinegdb.com/online_c++_compiler

Apps Gmail YouTube LinkedIn Maps udey Microsoft Office Ho... MUSIC JAVAudemy How to Get a Job in... JAVA Edu CMR institute of tec... JS30 HRank Reading list

OnlineGDB beta
online compiler and debugger for c/c++
code, compile, run, debug, share.
IDE
My Projects
Classroom **new**
Learn Programming
Programming Questions
We are Hiring
Sign Up
Login

About • FAQ • Blog • Terms of Use • Contact Us • GDB
Tutorial • Credits • Privacy
© 2016 - 2021 GDB Online

Run Debug Stop Share Save Beauty

Language C++

main.cpp
1 #include <stdio.h>
2 int main()
3 {
4 float percentage;
5 char grade;
6 //shubhankar147
7 printf("Enter the percentage of the student: ");
8 scanf("%f", &percentage);
9 if (percentage > 90) grade = 'A';
10 else if (percentage > 80) grade = 'B';
11 else if (percentage > 70) grade = 'C';
12 else if (percentage > 60) grade = 'D';
13 else grade = 'E';
14 switch (grade)
15 {
16 case 'A': printf("Excellent"); break;
17 case 'B': printf("Very Good"); break;
18 case 'C': printf("Good"); break;
19 case 'D': printf("Above Average"); break;
20 case 'E': printf("Satisfactory"); break;
21 default: break;
22 }
23 printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
24 return 0;
25 }

Input
Enter the percentage of the student: 67.3
Above Average
Percentage: 67.30 and Grade: D
...Program finished with exit code 0
Press ENTER to exit console.

The screenshot displays the OnlineGDB web interface. On the left is a blue sidebar with navigation links: IDE, My Projects, Classroom (marked 'new'), Learn Programming, Programming Questions, We are Hiring, Sign Up, and Login. The main area shows a C++ program in a dark-themed editor. The code defines a function to calculate a grade based on a percentage input. Below the editor, the console output shows the program's execution with an input of 56.45, resulting in a 'Satisfactory' grade and the output 'Percentage: 56.45 and Grade: E'. The status bar at the bottom indicates the program finished with exit code 0.

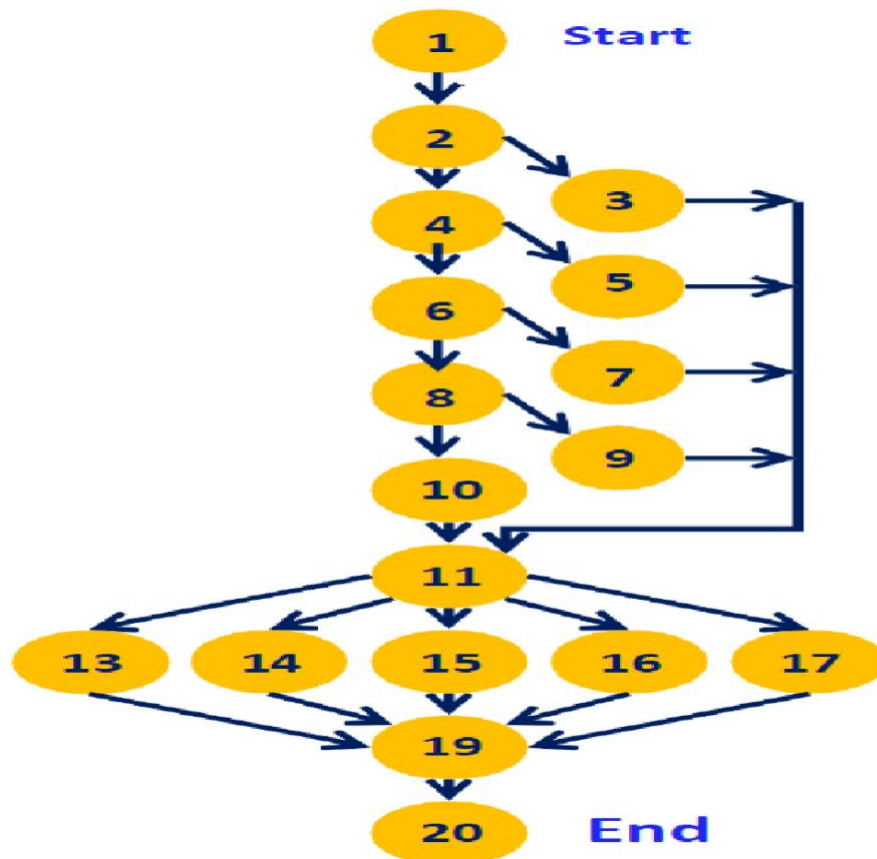
```
1 #include <stdio.h>
2 int main()
3 {
4     float percentage;
5     char grade;
6     //shubhankar147
7     printf("Enter the percentage of the student: ");
8     scanf("%f", &percentage);
9     if (percentage > 90) grade = 'A';
10    else if (percentage > 80) grade = 'B';
11    else if (percentage > 70) grade = 'C';
12    else if (percentage > 60) grade = 'D';
13    else grade = 'E';
14    switch (grade)
15    {
16    case 'A': printf("Excellent"); break;
17    case 'B': printf("Very Good"); break;
18    case 'C': printf("Good"); break;
19    case 'D': printf("Above Average"); break;
20    case 'E': printf("Satisfactory"); break;
21    default: break;
22    }
23    printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
24    return 0;
25 }
```

Enter the percentage of the student: 56.45
Satisfactory
Percentage: 56.45 and Grade: E

...Program finished with exit code 0
Press ENTER to exit console.

Program Graph

Test



Cases

Paths	Input	Expected Output	Remarks
	Per		
P1: 1-2-4-6-8-10-11-17-19-20	< 60	E Grade, Satisfactory	Pass
P2: 1-2-4-6-8-9-11-16-19-20	60-69	D Grade, Above Average	Pass
P3: 1-2-4-6-7-11-15-19-20	70-79	C Grade, Good	Pass
P4: 1-2-4-5-11-14-19-20	80-89	B Grade, Very Good	Pass
P5: 1-2-3-11-13-19-20	>= 90	A Grade, Excellent	Pass
P6: 1-2-4-6-8-10-11-13-19-20	< 60	Excellent	Fail
P7: 1-2-4-6-8-10-11-14-19-20	< 60	Very Good	Fail
P8: 1-2-4-6-8-10-11-15-19-20	< 60	Good	Fail
P9: 1-2-4-6-8-10-11-16-19-20	< 60	Above Average	Fail