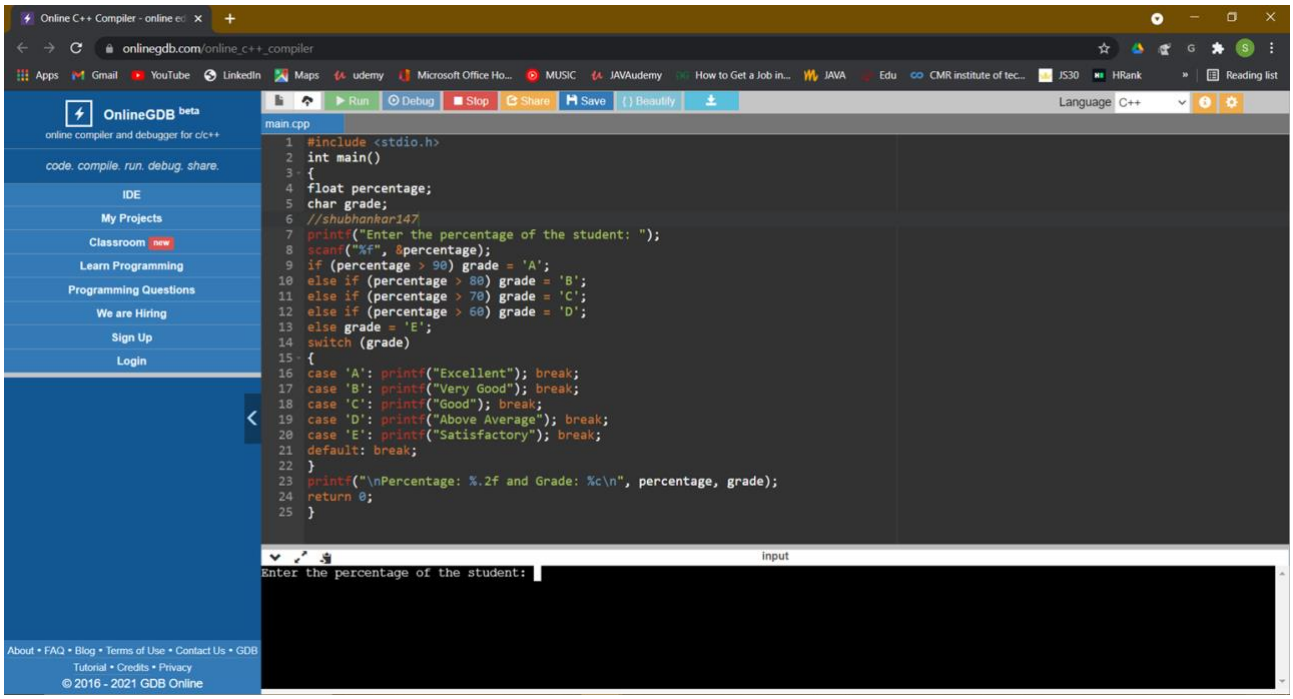
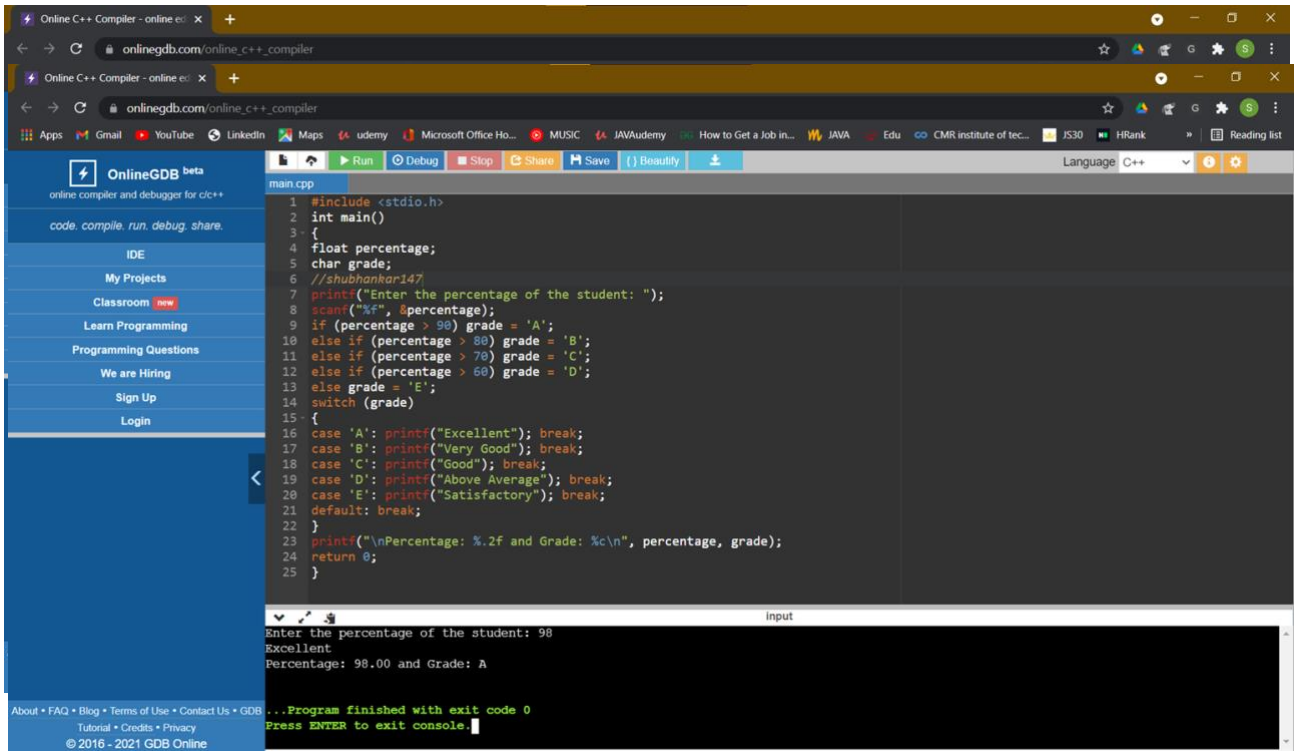
Shubhankar Rai
1CR18IS147

Absolute letter grading procedure

Code



OUTPUT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main.cpp
#include <stdio.h>
int main()
{
float percentage;
char grade;
//shubhankar147
printf("Enter the percentage of the student: ");
scanf("%f", &percentage);
if (percentage > 90) grade = 'A';
else if (percentage > 80) grade = 'B';
else if (percentage > 70) grade = 'C';
else if (percentage > 60) grade = 'D';
else grade = 'E';
switch (grade)
{
case 'A': printf("Excellent"); break;
case 'B': printf("Very Good"); break;
case 'C': printf("Good"); break;
case 'D': printf("Above Average"); break;
case 'E': printf("Satisfactory"); break;
default: break;
}
printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
return 0;
}
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.
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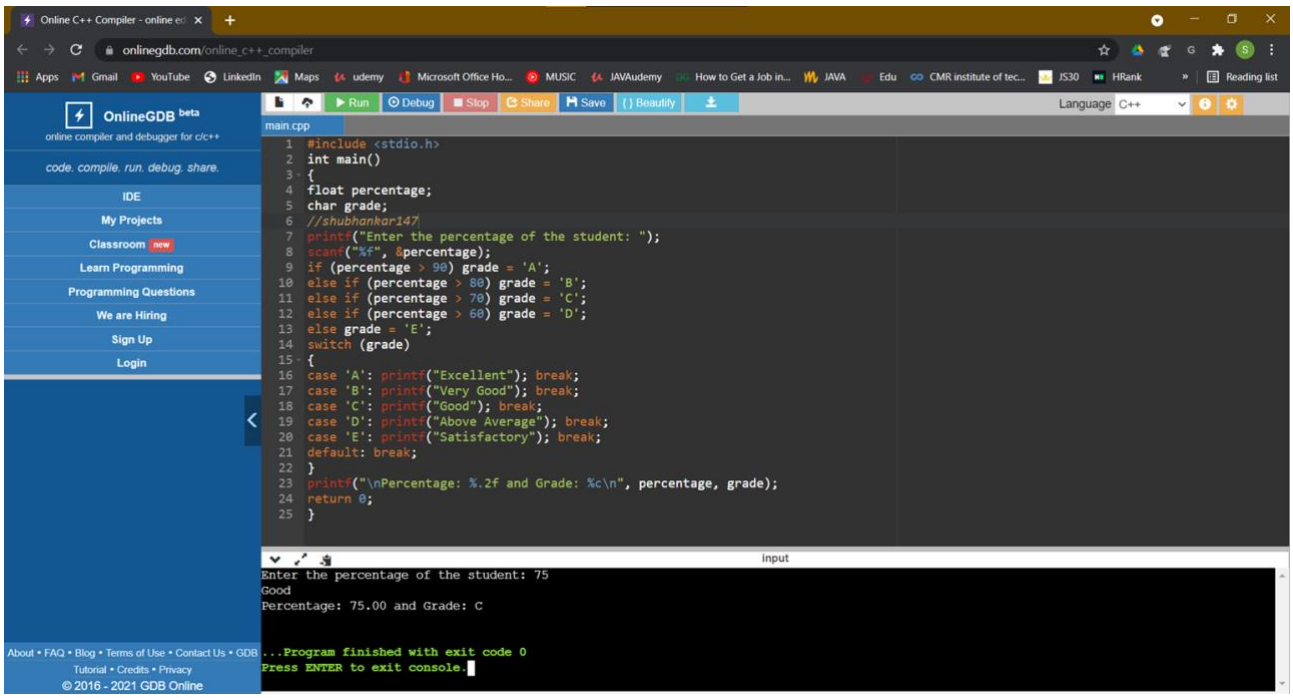
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case 'D': printf("Above Average"); break;
case 'E': printf("Satisfactory"); break;
default: break;
}
printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
return 0;
}
Input
Enter the percentage of the student: 75
Good
Percentage: 75.00 and Grade: C
...Program finished with exit code 0
Press ENTER to exit console.
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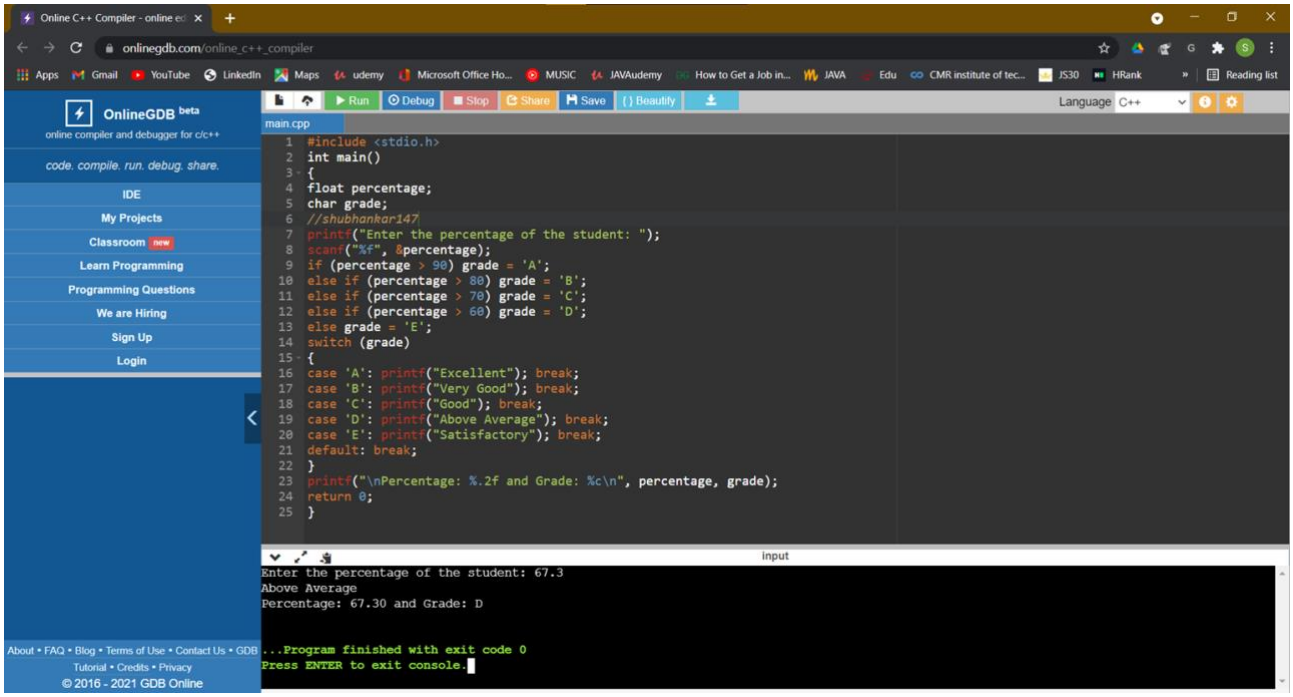
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Run Debug Stop Share Save { } Beautify
Language C++
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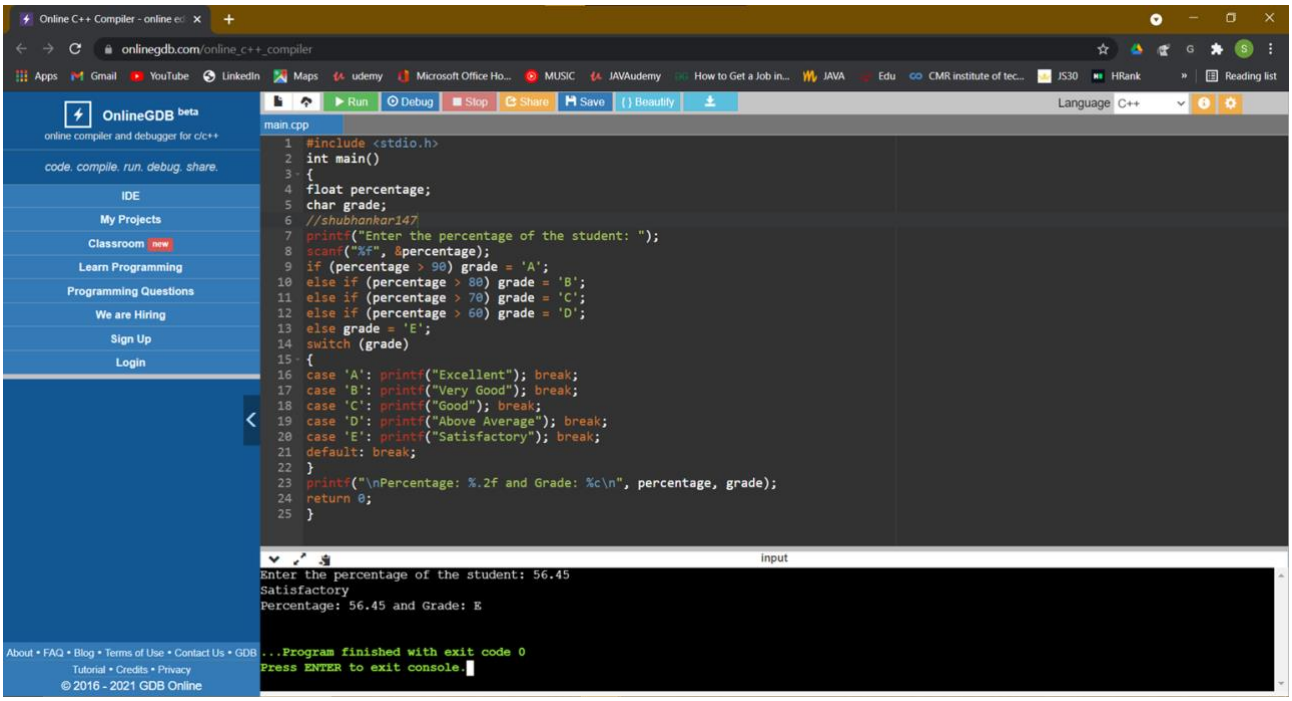
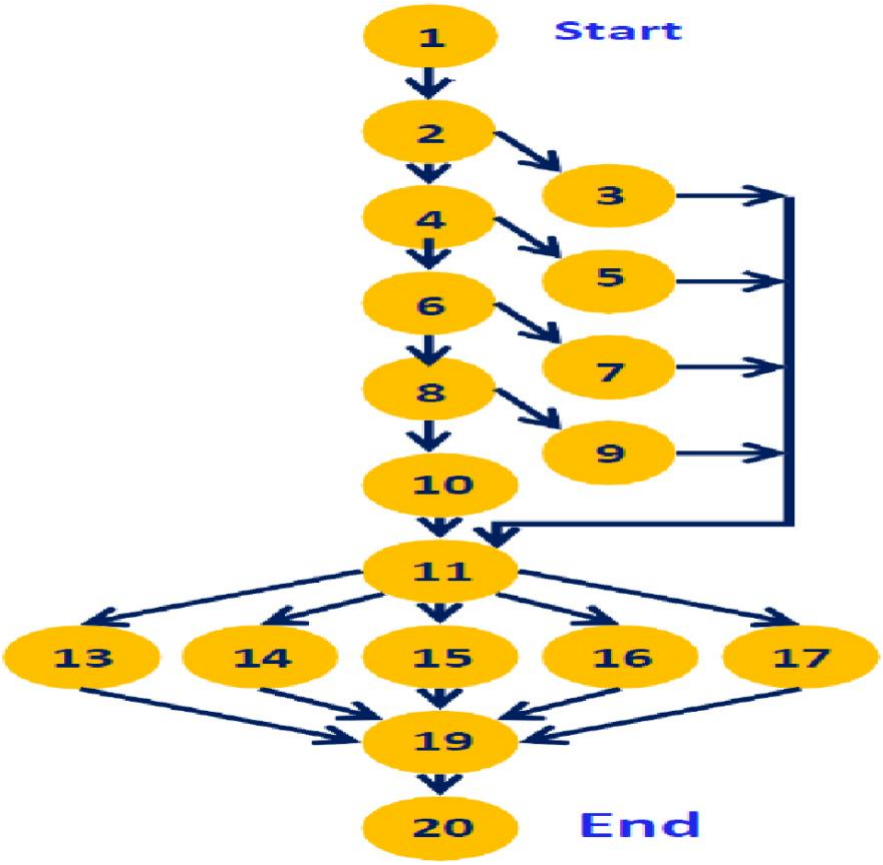
case 'B': printf("Very Good"); break;
case 'C': printf("Good"); break;
case 'D': printf("Above Average"); break;
case 'E': printf("Satisfactory"); break;
default: break;
}
printf("\nPercentage: %.2f and Grade: %c\n", percentage, grade);
return 0;
}
input
Enter the percentage of the student: 67.3
Above Average
Percentage: 67.30 and Grade: D
...Program finished with exit code 0
Press ENTER to exit console.



Program Graph

Test



Cases

Paths	Input Per	Expected Output	Remarks
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