

Write C programs to do the following, do not use iterative statements:

1. Find the largest of three integers
2. Read the marks secured by a student in 5 subjects and the corresponding credits. Display the grades and the GPA of the student.
3. Find the sum of digits of a three digit number.
4. Display a menu for a calculator, and perform the calculation based on the option.
5. Check if three numbers are equal.
6. Check if the given year is a leap year.
7. Check if the given number is odd or even. If the number is even, check if it is divisible by 4 also.
8. Compute the area of a circle, square, rectangle or triangle based on the option given by the user.
9. To display the department and branch based on user input using nested switch case.
10. To convert degree Celsius to Fahrenheit and vice versa
Celsius to Fahrenheit: $(^{\circ}\text{C} \times 9/5) + 32 = ^{\circ}\text{F}$
Fahrenheit to Celsius: $(^{\circ}\text{F} - 32) \times 5/9 = ^{\circ}\text{C}$
11. Check whether the triangle is equilateral, scalene or isosceles.
Isosceles triangle: In geometry, an isosceles triangle is a triangle that has two sides of equal length.
Equilateral triangle: In geometry, an equilateral triangle is a triangle in which all three sides are equal.
Scalene triangle: A scalene triangle is a triangle that has three unequal sides.
12. Given the month in number, display the name of the month and the number of days in the month.