Lab programs for B2 batch students

1. Write a C program to find maximum between two numbers.
2. Write a C program to find maximum between three numbers.
3. Write a C program to check whether a number is negative, positive or zero.
4. Write a C program to check whether a number is divisible by 5 and 11 or not.
5. Write a C program to check whether a number is even or odd.
**6. Write a C program to check whether a year is a leap year or not.**
**7. Write a C program to check whether a character is alphabet or not.**
8. **Write a C program to input any alphabet and check whether it is a vowel or consonant.**
**9. Write a C program to input any character and check whether it is alphabetical, digit or special character.**
10. Write a C program to check whether a character is uppercase or lowercase alphabets.
11. **Write a C program to convert the input date in the format DD/MM/YYYY into the format, e.g. 21st January 2015.**
**12. Write a C program to input the month number and print number of days in that month.**
**13. Write a C program to find the combination of denomination of current Indian currency notes such that a minimum number of notes to be dispense to make any payment.**
14. Write a C program to input angles of a triangle and check whether the triangle is valid or not.
15. Write a C program to input all sides of a triangle and check whether the triangle is valid or not.
16. Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.
**17. Write a C program to find all roots of a quadratic equation.**
18. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate the percentage and grade according to the following:
Percentage >= 90%: Grade A
Percentage >= 80%: Grade B
Percentage >= 70%: Grade C
Percentage >= 60%: Grade D
Percentage >= 40%: Grade E
Percentage < 40%: Grade F
19. Write a C program to input basic salary of an employee and calculate its Gross salary according to the following:
Basic Salary <= 10000: HRA = 20%, DA = 80%
Basic Salary <= 20000: HRA = 25%, DA = 90%
Basic Salary > 20000: HRA = 30%, DA = 95%
20. Write a C program to input electricity unit charges and calculate the total electricity bill according to the given condition:
For first 50 units Rs. 0.50/unit
For next 100 units Rs. 0.75/unit
For next 100 units Rs. 1.20/unit
For unit above 250 Rs. 1.50/unit
An additional surcharge of 20% is added to the bill