C programming lab questions on 16/9/2024

Topic: Programs using operators, decision making and branching statements

Preparation questions

1. Write a program to perform following operations on two operands a and b using relational, logical operators, unary increment and decrement operators and print the output of the operation.
   a>b
   a!=b
   a<=b
   a<3 && b>5
   !a
   a=++b
   a=b++
   sizeof(int)
   sizeof(a)
2. Write a program to swap the values of two numbers
3. Write a program to reverse the two-digit integer number.
4. Write a program to compare two integer numbers and print the biggest one. Use conditional operator.
5. Write a program to input a number and check whether the given number is even or odd and print type accordingly.
6. Write a program to print the grade(O,A,B,C,D) according to the score secured by a student

Execution Questions

1. Write a program to get two integer operands and one operator from the user and perform the four basic arithmetic operations using the if else ladder construct.
2. Write a program to compare three integer numbers and print the biggest one. Use the if else construct.

Spot:

3. Write a program to prepare the electricity bill for customers, given the following information: service number, previous month reading, current month reading. The output contains service number, units consumed and electric charges. Based on the units consumed, fix the unit price and calculate the electric charges. Use appropriate datatype to store the above information.