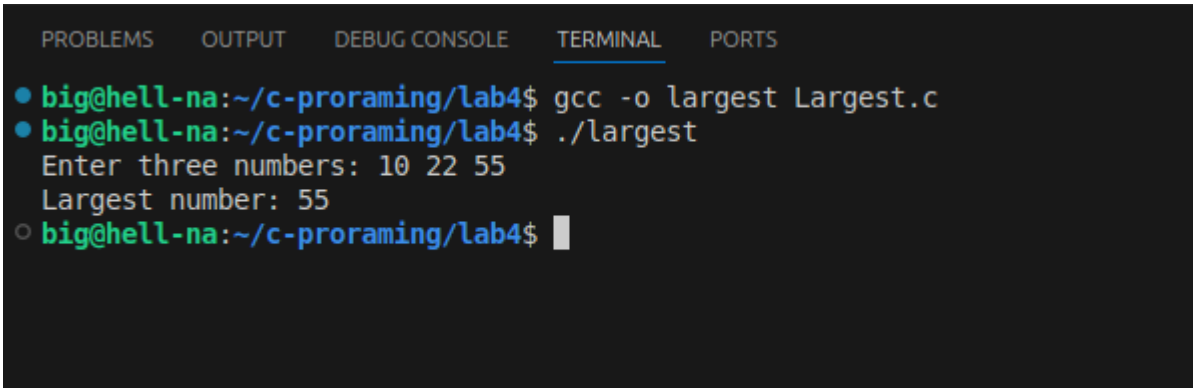
Lab – 4 (Control Statements)

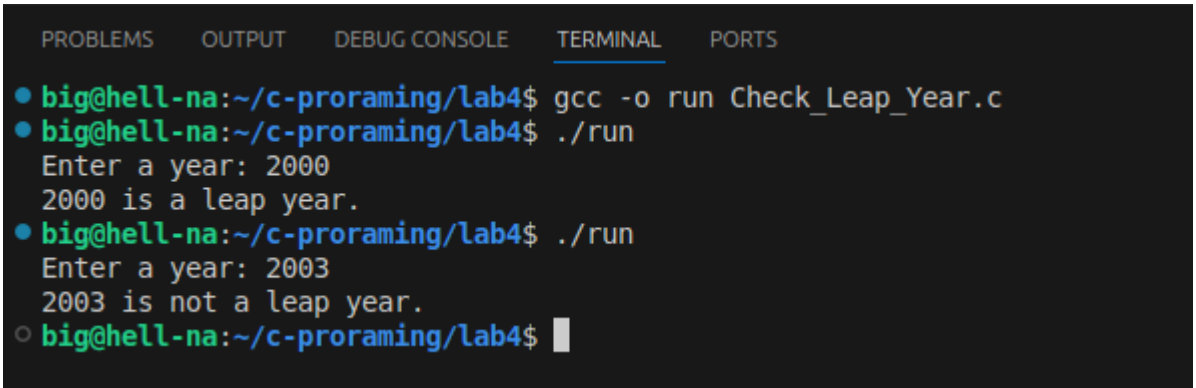
1. Write a program to find the **largest among three numbers** using nested **if-else**.

Output :



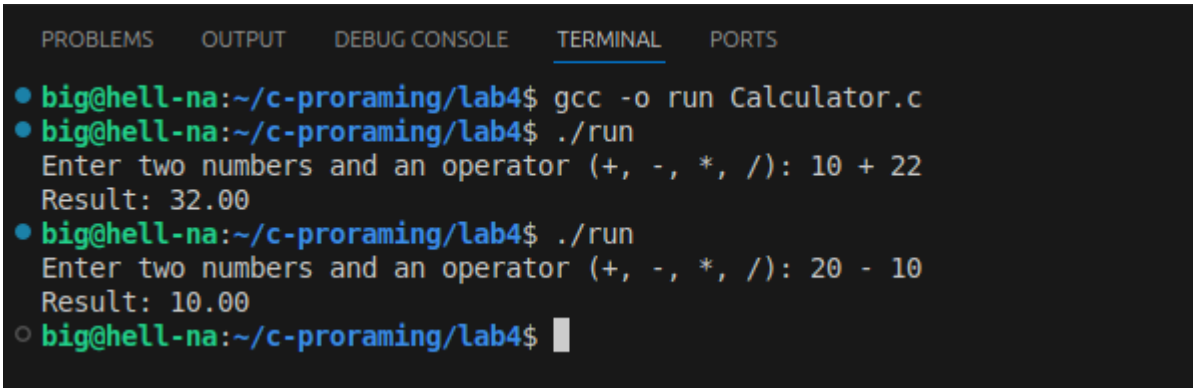
2. Write a program to determine whether a **year is a leap year** using an **if-else** statement.

Output :



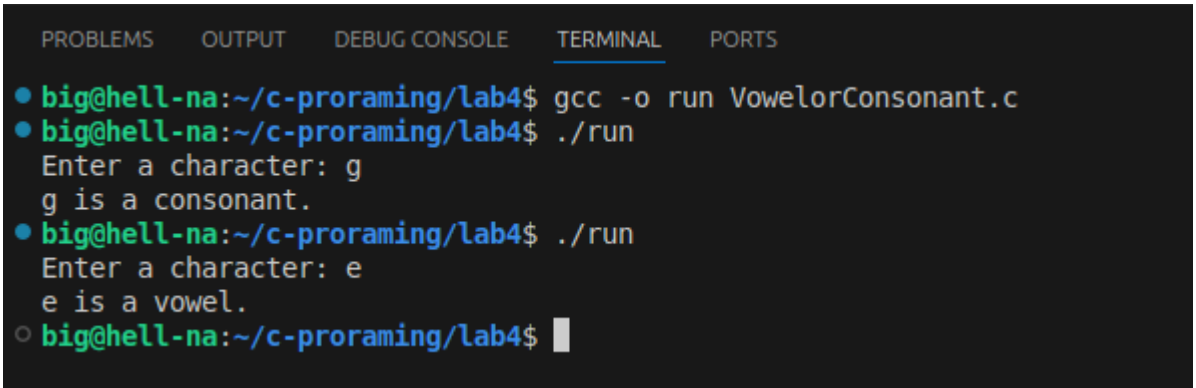
3. Create a simple **calculator** using the **switch-case** statement that takes two numbers and an operator (+, -, *, /) as input.

Output :



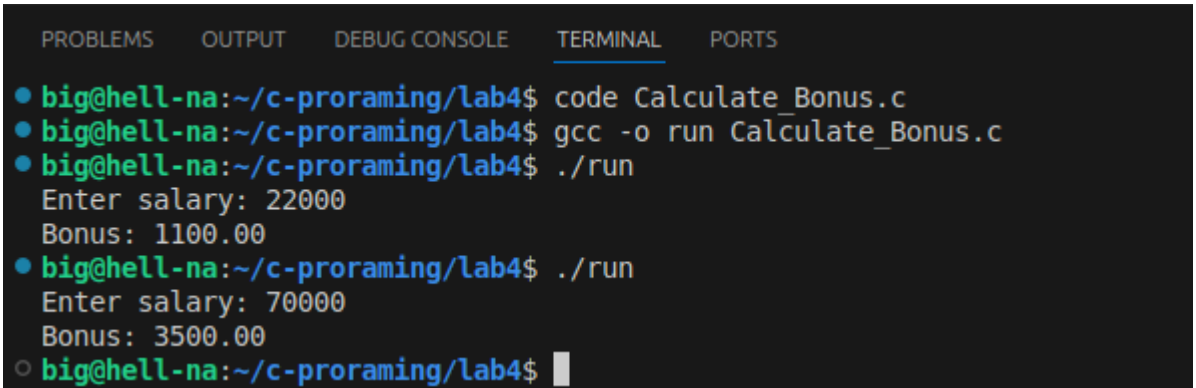
4. Write a program to determine whether a given **character is a vowel or consonant** using **switch-case**.

Output :



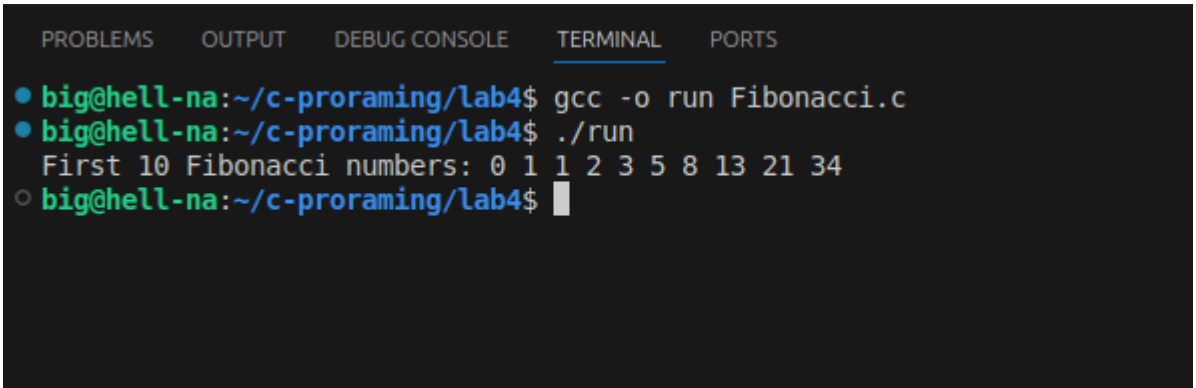
5. A company gives a bonus based on the salary:
    a. If salary < 10,000 → 10% bonus
    b. If salary >= 10,000 and < 20,000 → 8% bonus
    c. If salary >= 20,000 → 5% bonus
    Write a program to calculate the bonus based on user input.

Output :



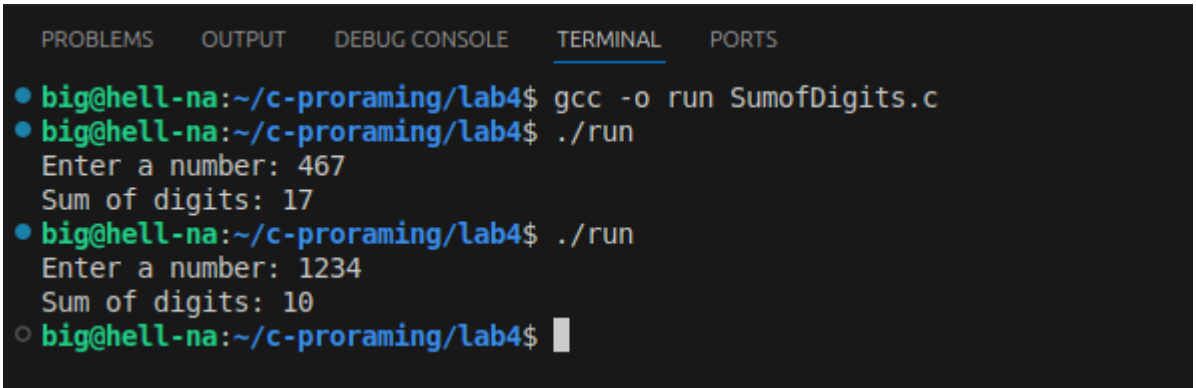
6. Write a program to **print the first 10 Fibonacci numbers** using a **for loop**.

Output :



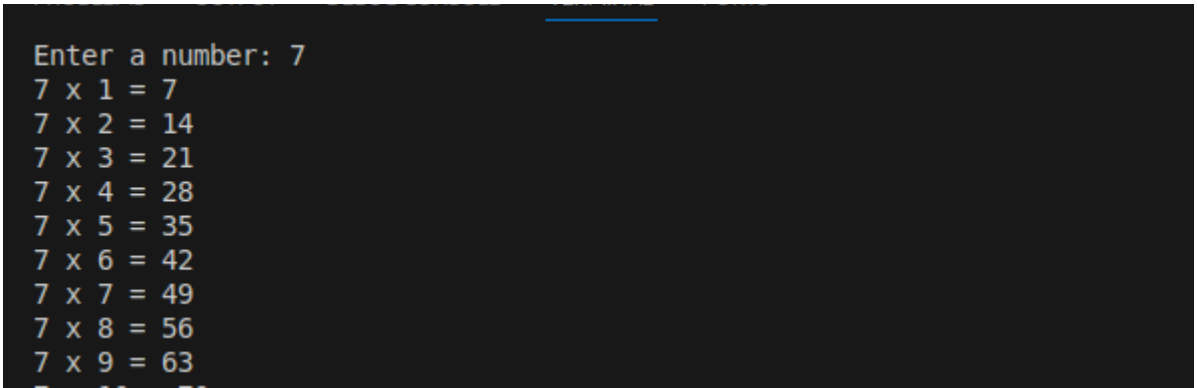
7. Write a program to **find the sum of digits** of a given number using a **while loop**.

Output :



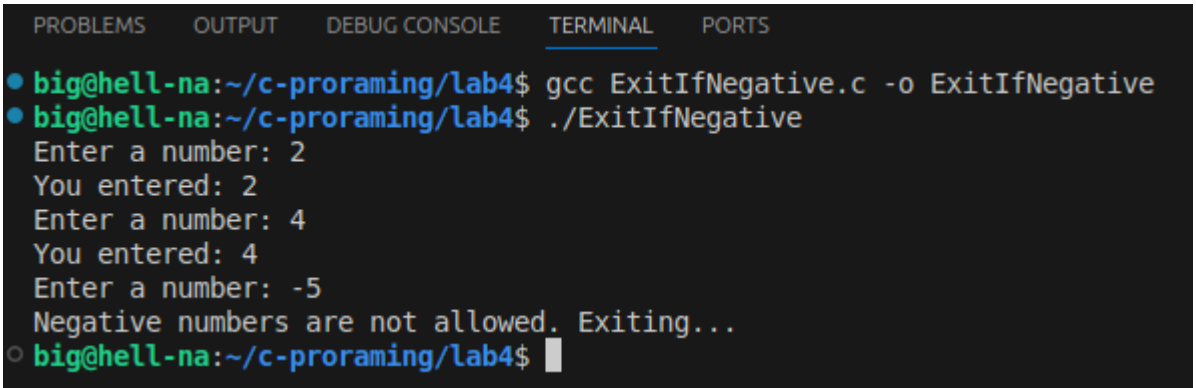
8. Write a C program to **print the multiplication table of a given number** using a **do-while loop**.

Output :



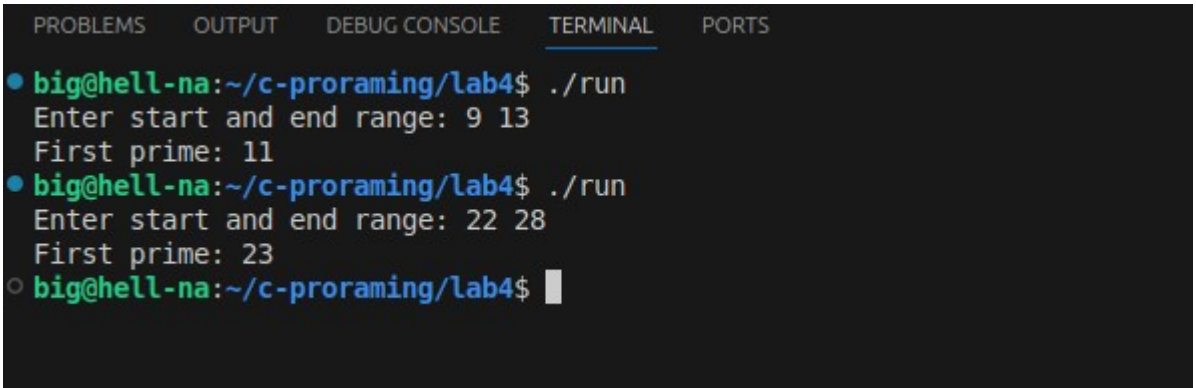
9. Write a program to accept a number from the user. If the number is **negative**, display a message `"Negative numbers are not allowed"` and **exit** the program using the `exit()` function.

Output :



10. Write a C program to **find the first prime number** between a given ranges of numbers. If a prime number is found, stop searching using the **break** statement.

Output :



11. Write a C program to print numbers from **1 to 20**, but **skip numbers that are divisible by 5**, using the **continue** statement.

Output :