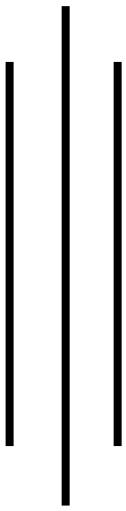
Chandpur Science and Technology University

Department of Computer Science and Engineering

LAB ASSIGNMENT #2



C Lab Assignment Submitted By:

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Submitted To:

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Lecturer
Department of Computer Science and Engineering, CSTU

Lab Date:

Submission Date:

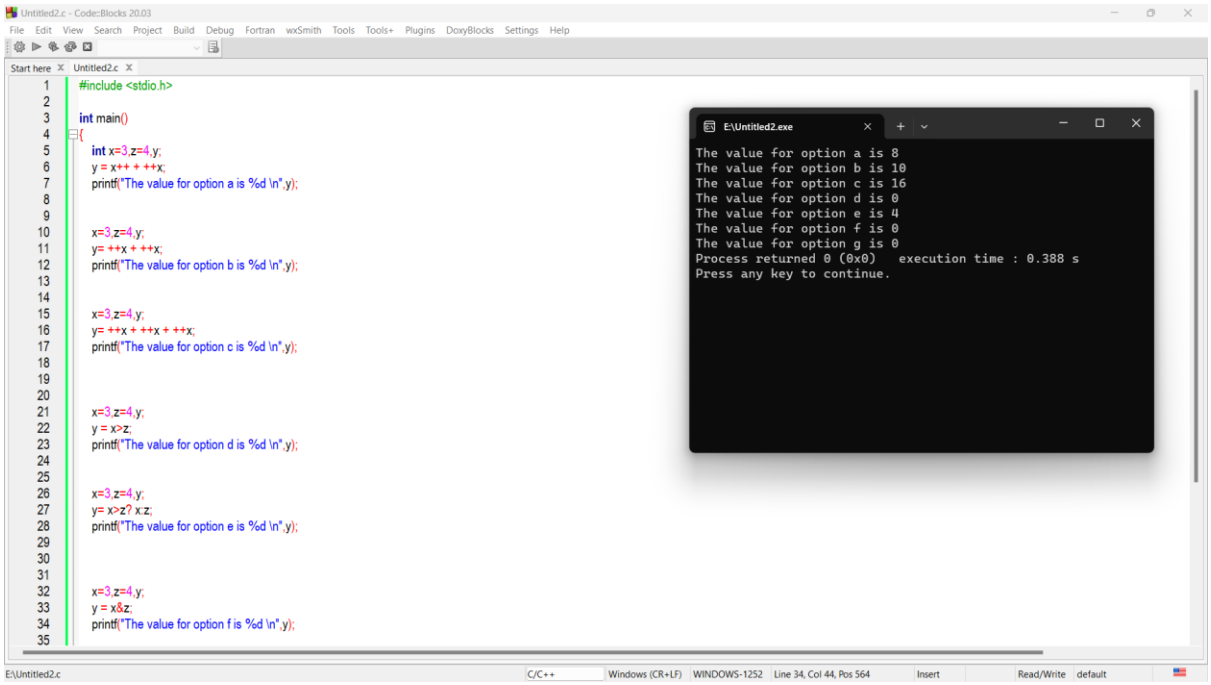
Marks & Signature

Problem No – 1

Title:

Print the value of y for given x=2 & z=4 and analyse the output.
a. y = x++ + ++x; b. y= ++x + ++x; c. y= ++x + ++x + ++x;
d. y = x>z; e. y= x>z? x:z; f. y = x&z;
g. y= x>>2 + z<<1;

Output:

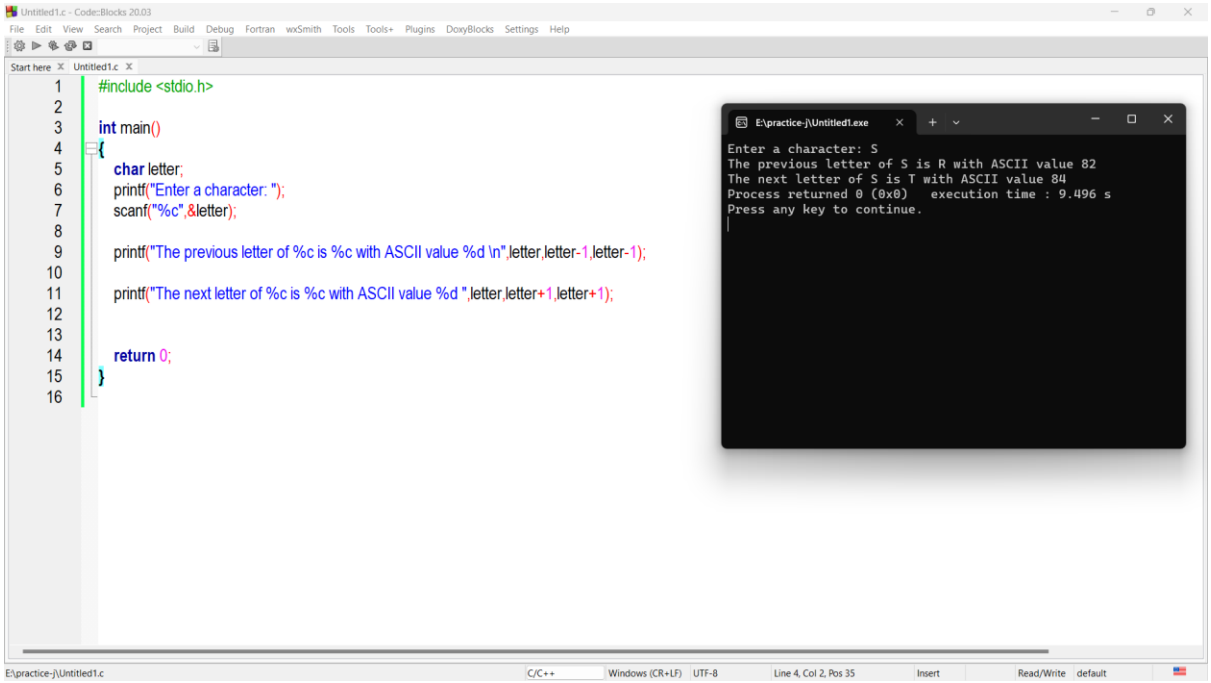


Problem No – 2

Ttile:

Write a C program to take a letter from English alphabet as input and display both the previous and the next letters with ASCII codes. Assume that input will always be chosen from B to Y or b to y.

Output:

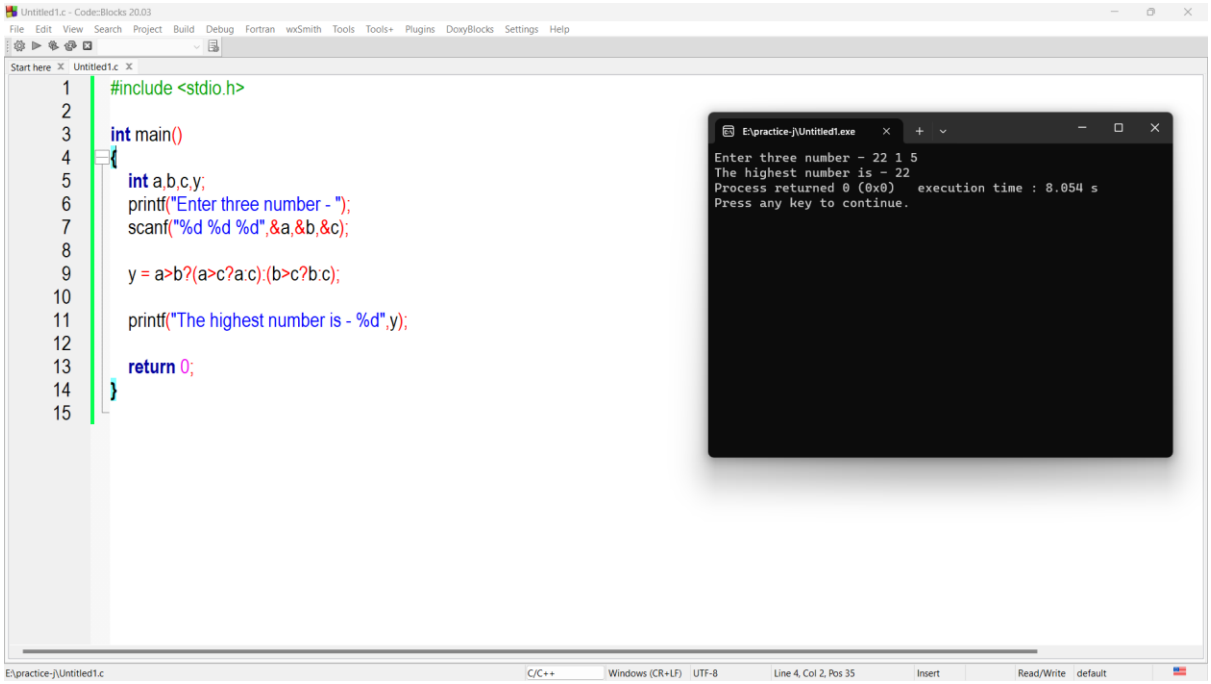


Problem No – 3

Ttile:

Three numbers are input through keyboard. Write a program to find out the maximum and minimum of these three numbers.

Output:

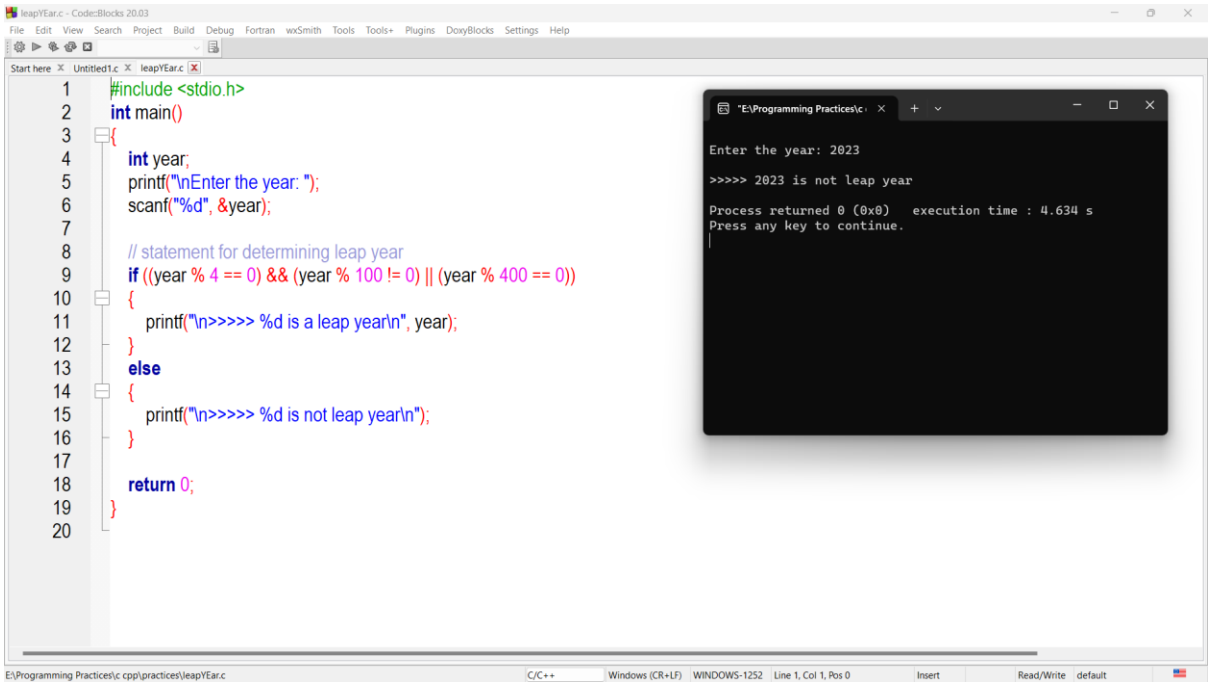


Problem No – 4

Ttile:

Take a year as input and determine whether it is a leap year or not. [Hint: Check the input year is divisibility by 4 but not by 100 or by 400]

Output:



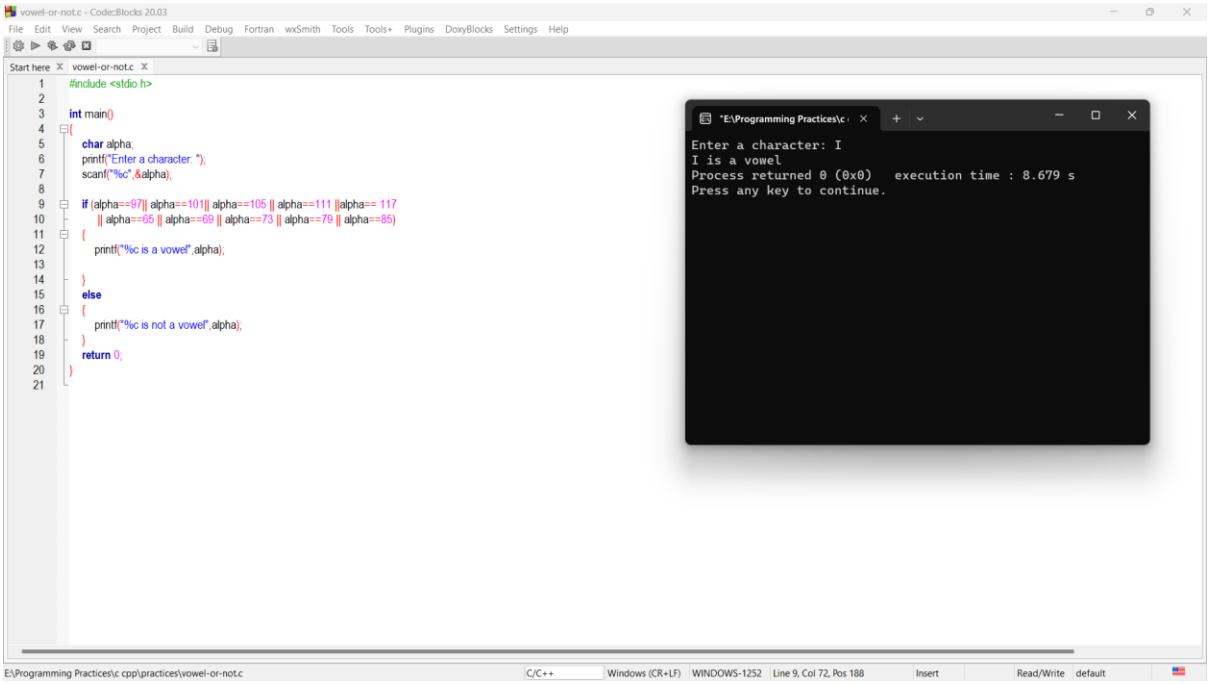
Problem No – 5

Ttile:

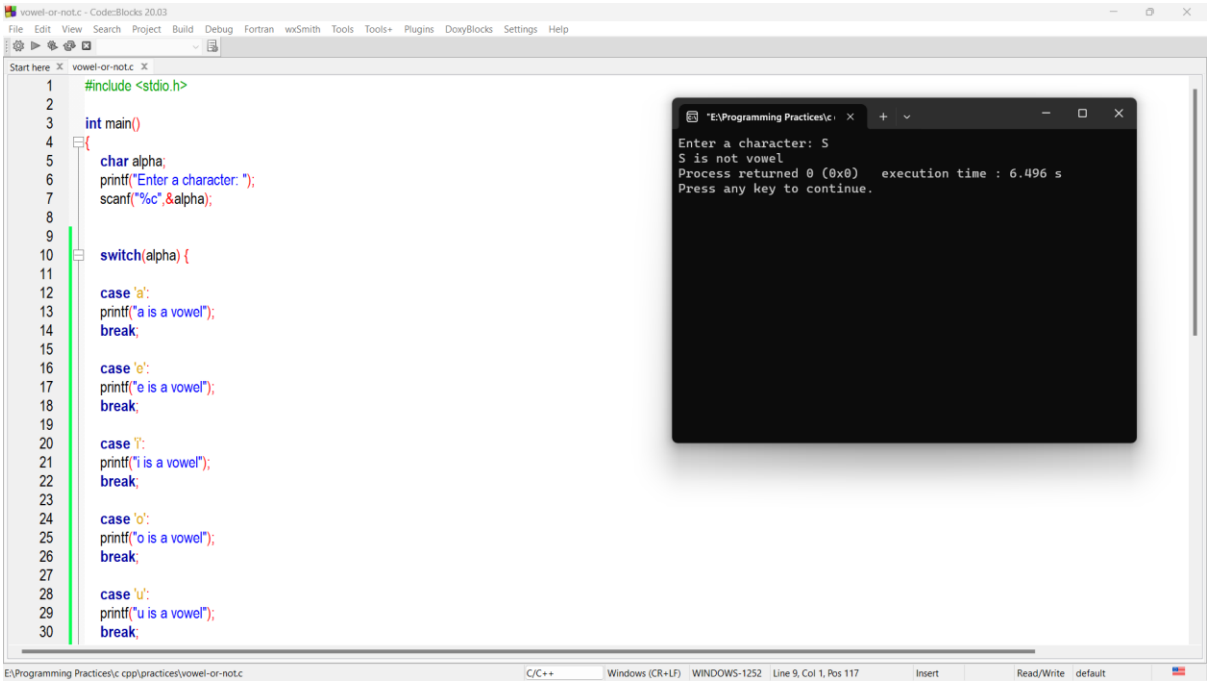
Write a program to check whether input alphabet is vowel or not using if-else and switch statements.

Output:

with if else statement



with switch statements

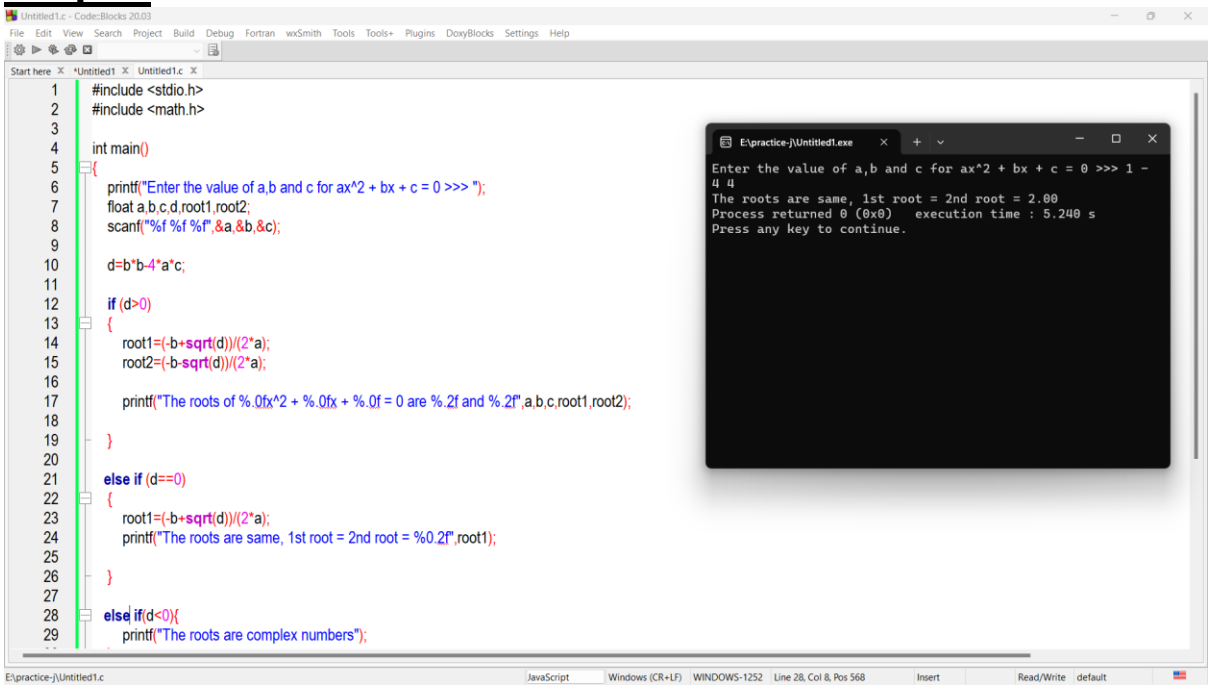


Problem No – 6

Ttile:

Write a program to read the values of coefficients a, b and c of a quadratic equation ax2+bx+c=0 and find roots of the equation.

Output:

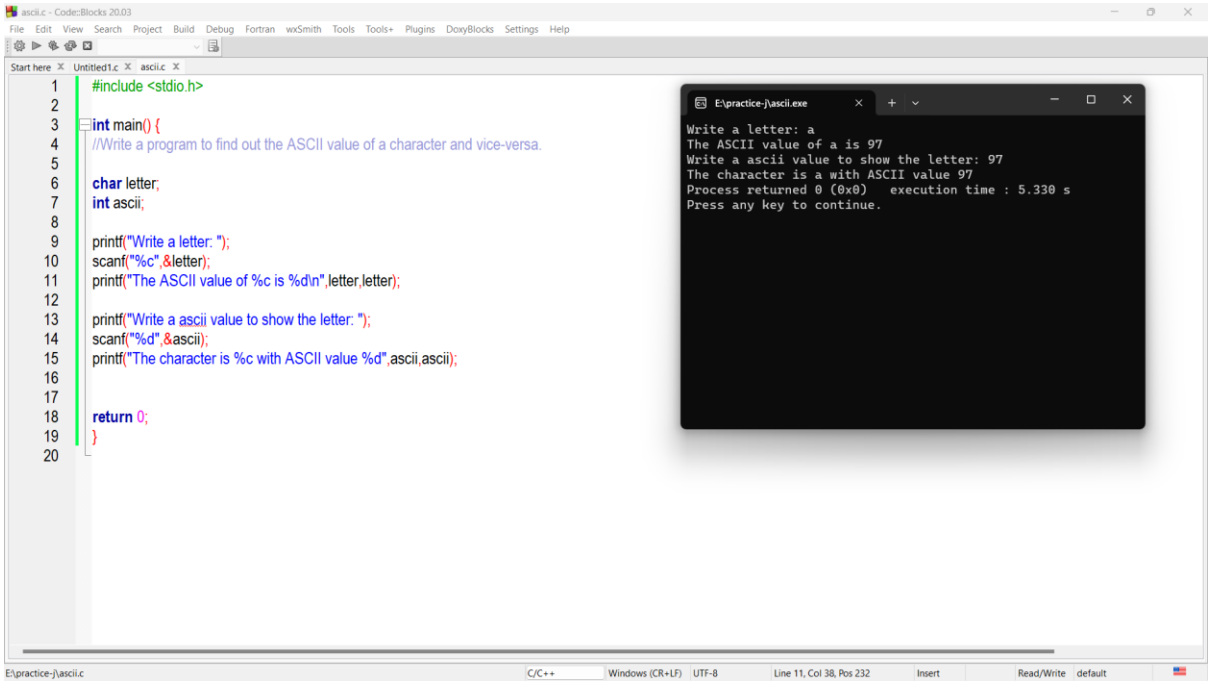


Problem No – 7

Ttile:

Write a program to find out the ASCII value of a character and vice-versa.

Output:

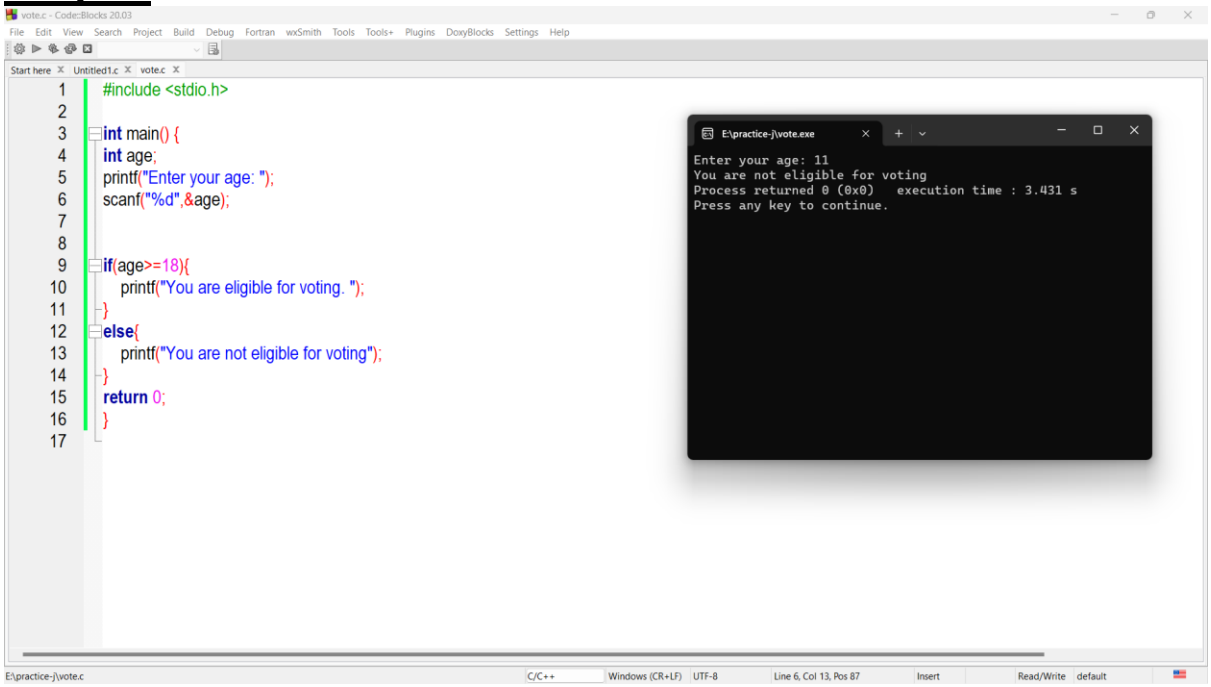


Problem No – 8

Ttile:

Write a program to check whether you are eligible to vote or not.

Output:

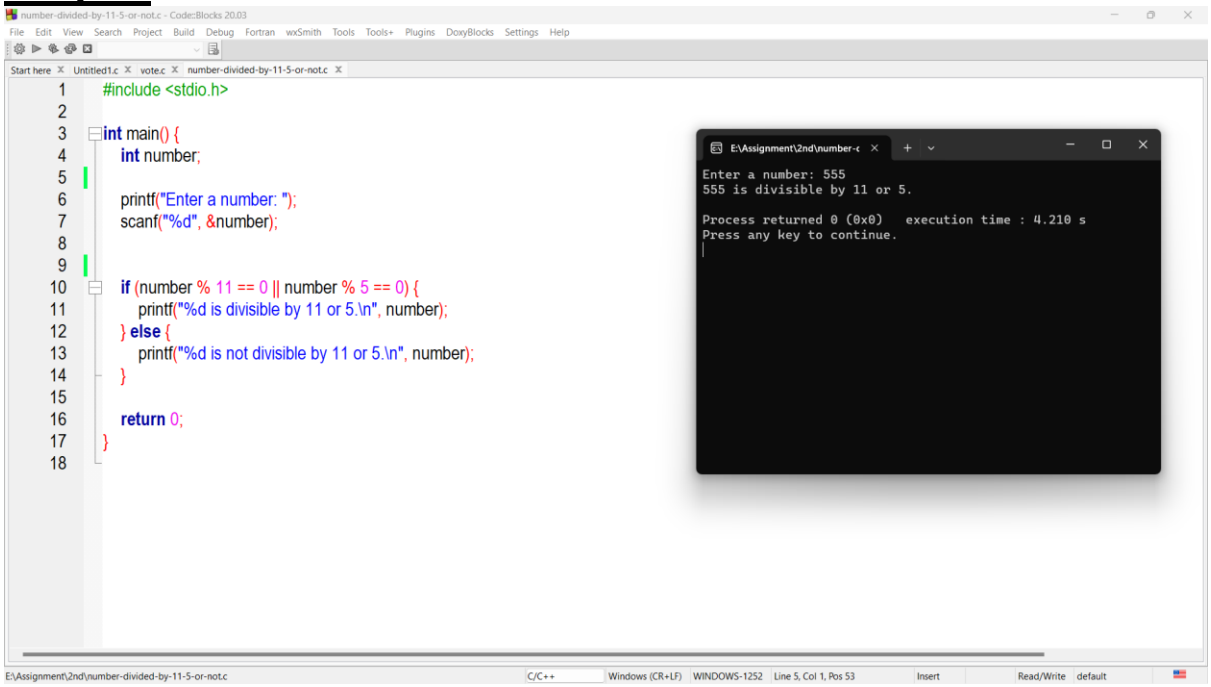


Problem No – 9

Ttile:

Write a program to check whether a number is divisible by 5 and 11 or not.

Output:



Problem No – 10

Ttile:

Write a C program to input electricity unit charges and calculate 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

Output: