

University of Information Technology and Sciences

Department of CSE

Assignment

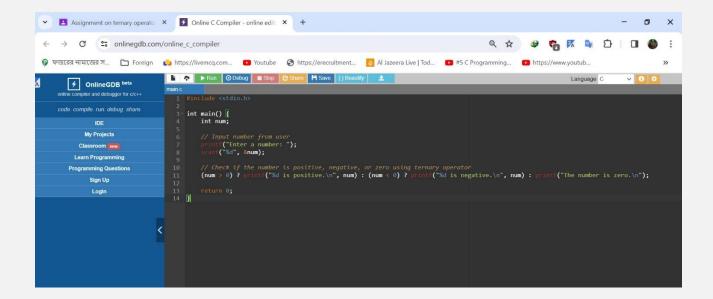
Course code :	CSE0613112	
Course title :	Structured Programming Language Lab	
Assignment No.	03	
Assignment title :	Assignment on ternary operator and if-else statement	
Submission date :	02 March 2024	

Submitted by:	Submitted to:
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Programme no: 01

<u>Programme name</u>: Write a program in C that checks a number is positive, negative or zero.

Source code: Here is the following source code of this programme:



<u>Input/Output</u>: Here is the input and output of the programme:

```
Enter a number: 87
87 is positive.

...Program finished with exit code 0
Press ENTER to exit console.
```

<u>Conclusion</u>: The programme has shown our expected values and we can call this programme a legit.

Programme no: 02

Programme name: Write a program in C that prints the toggle case of an alphabet.

Source code: Here is the following source code of this programme:

```
| Roman | State | Stat
```

<u>Input/Output</u>: Here is the input and output of the programme:

```
input

Enter an alphabet: F

Toggle case: f

...Program finished with exit code 0

Press ENTER to exit console.
```

<u>Conclusion</u>: The programme has shown our expected values and we can call this programme a legit. All of the codes worked well and the programme is successful.

Programme no: 03

<u>Programme name</u>: Write a program in C that checks a person can donate blood or not. [Condition: If age is greater than 18 and weight is greater than or equal to 50years, He/ She can donate blood.]

Source code: Here is the following source code of this programme:

```
main.c

##Include <stdio.h>

##Include <stdio.h

##Include <stdio.h
```

<u>Input/Output</u>: Here is the input and output of the programme:

```
input

Enter your age: 30

Enter your weight in kilograms: 70

You are eligible to donate blood.

...Program finished with exit code 0

Press ENTER to exit console.
```

<u>Conclusion</u>: The programme has worked as expected and we can call this programme a legit. All of the codes worked well and the programme is successful.

Programme no: 04

Programme name: Write a program in C that checks an alphabet is vowel or consonant using ternary operator.

Source code: Here is the following source code of this programme:

```
main.c

#include <stdio.h>

int main() {
    char alphabet;

printf("Enter an alphabet: ");
    scanr("%c", %alphabet);

// Using ternary operator to check if the alphabet is a vowel or consonant
(alphabet >= 'a' && alphabet <= 'z' || alphabet >= 'A' && alphabet <= 'z')

? ((alphabet >= 'a' && alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'U')

alphabet == 'A' || alphabet == 'E' || alphabet == 'I' || alphabet == 'O' || alphabet == 'U')

? printf("%c is a vowel.\n", alphabet)

: printf("%c is a consonant.\n", alphabet))

: printf("Invalid input. Please enter an alphabet.\n");

return 0;
```

Input/Output: Here is the input and output of the programme:

```
input

Enter an alphabet: A

A is a vowel.

...Program finished with exit code 0

Press ENTER to exit console.
```