

## Experiment -11

In a class of Grade 3, Mathematics Teacher asked for the Acronym PEMDAS ?. All of them are thinking for a while. A smart kid of the class Kishore of the class says it is Parentheses, Exponentiation, Multiplication, Division, Addition, Subtraction. Can you write a C Program to help the students to understand about the operator precedence parsing for an expression containing more than one operator, the order of evaluation depends on the order of operations.

### PROGRAM:

```
#include <stdio.h>

int main() {
    int result;

    int a = 10, b = 2, c = 3;

    result = a + b * c;

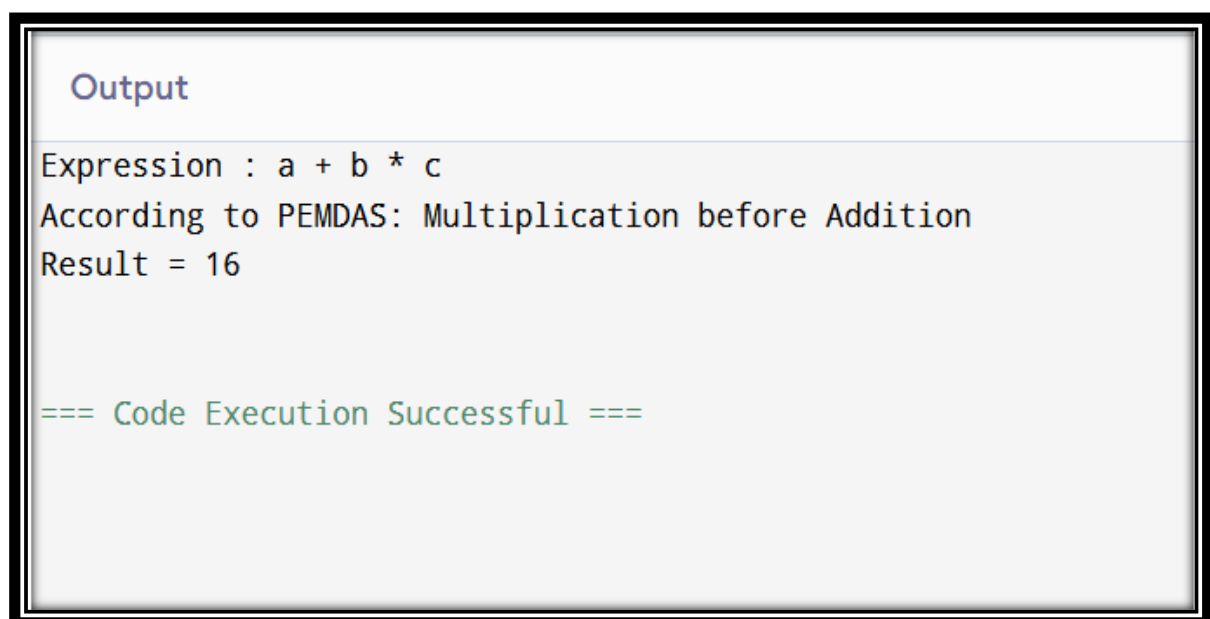
    printf("Expression : a + b * c\n");

    printf("According to PEMDAS: Multiplication before Addition\n");

    printf("Result = %d\n", result);

    return 0;
}
```

### OUTPUT:

A screenshot of a code execution window with a black border. The title bar says "Output". The text inside shows the output of the C program: "Expression : a + b \* c", "According to PEMDAS: Multiplication before Addition", and "Result = 16". At the bottom, it says "=== Code Execution Successful ===" in green text.

```
Output
Expression : a + b * c
According to PEMDAS: Multiplication before Addition
Result = 16

=== Code Execution Successful ===
```