



Anjuman-I-Islam's  
**M. H. Saboo Siddik**  
**College of Engineering**

**Course  
Code**  
**VSEC102**

**Credits**  
**2**



# C programming

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Sem-I



# Module-03

## Functions

Lab Outcomes: Learners will be able to

1. Illustrate the basic terminology used in computer programming.
2. Use different data types in a computer program.
3. **Design programs involving decision structures, loops and functions.**
4. Implement Arrays , String, and Structure
5. Describe the dynamics of memory by the use of pointers.
6. Use different data structures and create/update basic data files.

3	Functions and Parameter	3.1 Function -Introduction of Function, Function Main, defining a Function, accessing a Function, Function Prototype, Passing Arguments to a Function, Recursion. 3.2 Storage Classes –Auto , Extern , Static, Register	05	LO3
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# Question



**WAP to define a counter function to print how many times the function is called.  
use static storage classes.**

## Experiment 6



# ALGORITHM

## 1.Start

## 2.Define the counter function:

- Declare a static integer variable count and initialize it to 0.
- Increment count by 1.
- Print the value of count.

## 3.Define the main function:

- Print a header message: "\*\*\* Storage Class \*\*\*".
- Call the counter function four times.

## 4. stop

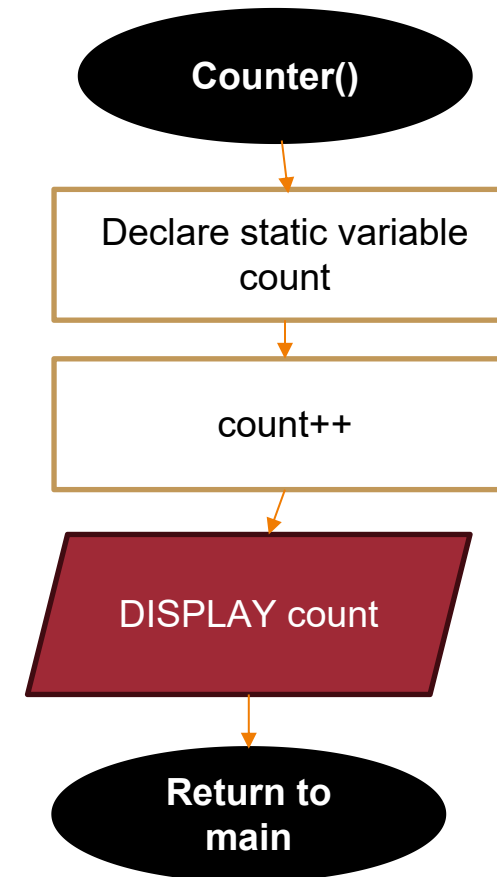
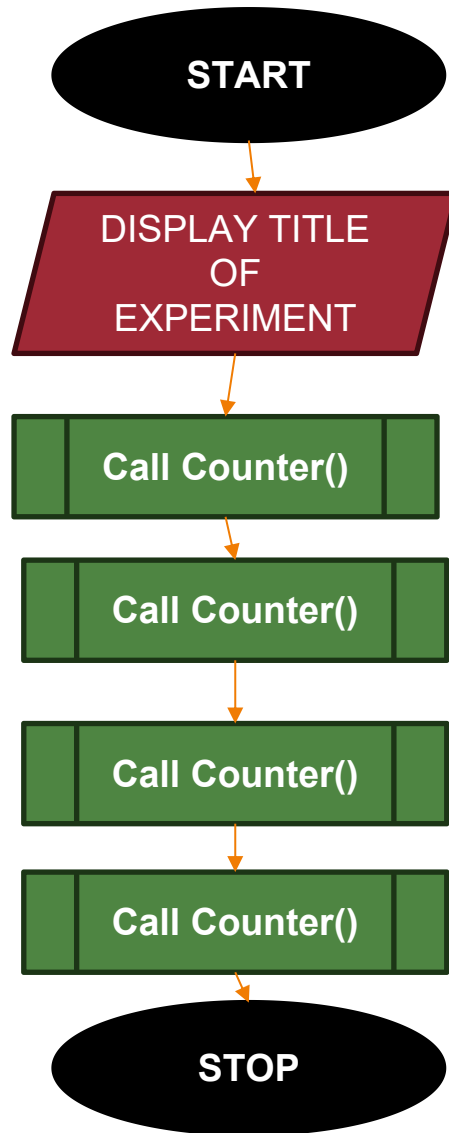
## Explanation:

- The **static keyword** makes count retain its value between multiple calls to **counter()**, allowing it to accumulate the number of times counter has been called.
- Each call to counter increments count by 1** and prints the updated value.





# FLOWCHART







Expt 6 - Task 1

Module 2 : Storage Classes

Aim: WAP to define a counter function to print how many times the function is called. use storage classes.

\*/

```
#include<stdio.h>
```

```
void counter(){  
    static int count = 0;  
    count++;  
  
    printf("Counter Function Called : %d\n", count);  
}
```

```
int main() {  
  
    printf("\t\t\t *** Storage Class *** \n\n");  
  
    counter();  
    counter();  
    counter();  
    counter();  
  
    return 0;  
}
```

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\*\*\* Storage Class \*\*\*

Counter Function Called : 1

Counter Function Called : 2

Counter Function Called : 3

Counter Function Called : 4

Process returned 0 (0x0) execution time : 2.447 s

Press any key to continue.



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Minds are like  
parachutes - they  
only function when  
open.

Thomas Dewar

