WEEKLY INTERNSHIP ACTIVITY 3

Create a function demonstrating how static variables retain values between calls.

- Static variables:
  - Are initialized only once
  - Retain their value between function calls
  - Have local scope but static lifetime

C Program (Single File)

```c
#include <stdio.h>

// Function to demonstrate static variable behavior
void counterFunction() {
    static int count = 0;   // static variable
    count++;
    printf("Count value: %d\n", count);
}

int main() {
    counterFunction();
    counterFunction();
    counterFunction();
    return 0;
}
```

Execution Output

```
Count value: 1
Count value: 2
Count value: 3
```

Try Online (Click to open)

- Onecompiler > c