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COURSE NAME: DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS

COURSE CODE: CSA0302

Experiment 8: Fibonacci with Recursion

CODE:

```c
#include <stdio.h>

int fib(int n) {
    if(n == 0)
        return 0;
    else if(n == 1)
        return 1;
    else
        return fib(n - 1) + fib(n - 2);
}

int main() {
    int n, i;
    printf("Enter number of terms: ");
    scanf("%d", &n);
    printf("Fibonacci Series: ");
    for(i = 0; i < n; i++)
        printf("%d ", fib(i));
    return 0;
}
```

OUTPUT:

```
Enter number of terms: 8
Fibonacci Series: 0 1 1 2 3 5 8 13

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