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COURSE NAME: DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS

COURSE CODE: CSA0302

Experiment 8: Fibonacci with Recursion

CODE:

```
#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 ===
```