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COURSE NAME: DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS

COURSE CODE: CSA0302

Experiment 7: Fibonacci without Recursion

CODE:

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

```
int main() {  
    int n, first = 0, second = 1, next, i;  
    printf("Enter number of terms: ");  
    scanf("%d", &n);  
    printf("Fibonacci Series: ");  
    for(i = 0; i < n; i++) {  
        if(i <= 1)  
            next = i;  
        else {  
            next = first + second;  
            first = second;  
            second = next;  
        }  
        printf("%d ", next);  
    }  
    return 0;  
}
```

OUTPUT:

```
Enter number of terms: 10  
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34
```

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