1. Fibonacci using recursion

Code:

#include <stdio.h>

int fibonacci(int n) {

if (n <= 1)

return n;

else

return fibonacci(n - 1) + fibonacci(n - 2);

}

int main() {

int n, i;

printf("Enter the number of terms: ");

scanf("%d", &n);

printf("Fibonacci Series: ");

for (i = 0; i < n; i++) {

printf("%d ", fibonacci(i));

}

return 0;

}

Output:

Enter the number of terms: 10

Fibonacci Series: 0 1 1 2 3 5 8 13 21 34

--------------------------------

Process exited after 2.688 seconds with return value 0

Press any key to continue . . .

