

6. Write a C program to find Fibonacci series using Recursion

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

```
int fibonacci(int n) {
```

```
    if (n == 0)
```

```
        return 0;
```

```
    else if (n == 1)
```

```
        return 1;
```

```
    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));
```

```
    }
```

```
    printf("\n");
```

```
    return 0;
```

```
}
```

main.c	Output
<pre>1 #include <stdio.h> 2 int fibonacci(int n) { 3 if (n == 0) 4 return 0; 5 else if (n == 1) 6 return 1; 7 else 8 return fibonacci(n - 1) + fibonacci(n - 2); 9 } 10 int main() { 11 int n, i; 12 printf("Enter the number of terms: "); 13 scanf("%d", &n); 14 printf("Fibonacci Series: "); 15 for (i = 0; i < n; i++) { 16 printf("%d ", fibonacci(i)); 17 } 18 printf("\n"); 19 return 0; 20 } 21</pre>	<pre>Enter the number of terms: 10 Fibonacci Series: 0 1 1 2 3 5 8 13 21 34 === Code Execution Successful ===</pre>