

PROGRAM 6:

```
#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;

    int i;

    printf("enter the number:");

    scanf("%d",&n);

    printf("Fibonacci of %d: " , n);

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

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

    }

}
```

OUTPUT:

```
C:\Users\A.V.NAGA KAVYA\Documents\ds6.exe
enter the number:5
Fibonacci of 5: 0 1 1 2 3
-----
Process exited after 4.635 seconds with return value 5
Press any key to continue . . .
```