

The screenshot shows the Microsoft Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "DSA" containing files: f.exe, fib.c, large.c, and p.exe. The file "fib.c" is currently selected.
- Code Editor:** Displays the content of the "fib.c" file. The code defines a recursive function "fib" and a main function that prompts the user for an input number and prints the corresponding Fibonacci number.

```
C:\fib.c > main()
1 #include <stdio.h>
2
3 int fib(int n)
4 {
5     if(n == 0)
6         return 0;
7     else if(n == 1)
8         return 1;
9     else
10        return fib(n-1) + fib(n-2);
11 }
12
13 int main()
14 {
15     int n;
16
17     printf("Enter number: ");
18     scanf("%d", &n);
19
20     int result = fib(n);
21
22     printf("Fibonacci number at position %d = %d", n, result);
23 }
24
```

- Terminal:** Shows a command-line session where the user has compiled the program ("gcc fib.c -o f") and run it ("./f"). The output shows the Fibonacci number at position 6 is 8.

```
PS C:\Users\Sachith Nandakumar\Desktop\DSA> gcc fib.c -o f
PS C:\Users\Sachith Nandakumar\Desktop\DSA> ./f
Enter number: 6
Fibonacci number at position 6 = 8
PS C:\Users\Sachith Nandakumar\Desktop\DSA>
```

- Status Bar:** Shows the current line (Ln 17), column (Col 25), and encoding (UTF-8). It also indicates the file is saved (S), the user is signed out, and the operating system is Win32.