

A screenshot of a C programming environment in Visual Studio Code. The code editor shows a file named `dsa2.c` with the following content:

```
1 #include <stdio.h>
2
3 int factorial(int n) {
4     if (n == 0 || n == 1)
5         return 1;
6     else
7         return n * factorial(n - 1);
8 }
9
10 int main() {
11     int num;
12
13     printf("Enter a number: ");
14     scanf("%d", &num);
15
16     printf("Factorial of %d is %d\n", num, factorial(num));
17
18     return 0;
19 }
```

The terminal below shows the execution of the program:

```
PS C:\Programming with C> gcc dsa2.c
PS C:\Programming with C> ./a.exe
Enter a number: 4
Factorial of 4 is 24
PS C:\Programming with C>
```