```c
#include <stdio.h>

// Recursive function to calculate factorial
long long factorial(int n) {
    if (n == 0)
        return 1;
    else
        return n * factorial(n - 1);
}

int main() {
    int num;
    printf("Enter a positive integer: ");
    scanf("%d", &num);
    printf("Factorial of %d = %lld", num, factorial(num));
    return 0;
}
```

```
PS C:\Users\siyas\OneDrive\Desktop\siya> cd "c:\Users\siyas\OneDrive\Desktop\s
iya\" ; if ($?) { gcc factorial.c -o factorial } ; if ($?) { .\factorial }
Enter a positive integer: 4
Factorial of 4 = 24
PS C:\Users\siyas\OneDrive\Desktop\siya> cd "c:\Users\siyas\OneDrive\Desktop\s
iya\" ; if ($?) { gcc factorial.c -o factorial } ; if ($?) { .\factorial }
Enter a positive integer: 5
Factorial of 5 = 120
PS C:\Users\siyas\OneDrive\Desktop\siya>
```