#include<stdio.h>

long int multiplyNumbers(int n);

int main() {

int n;

printf("Enter a positive integer: ");

scanf("%d",&n);

printf("Factorial of %d = %ld", n, multiplyNumbers(n));

return 0;

}

long int multiplyNumbers(int n) {

if (n>=1)

return n\*multiplyNumbers(n-1);

else

return 1;

}

Output:

Enter an integer: 9

Factorial of 9 = 362880

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Process exited after 1.338 seconds with return value 0

Press any key to continue . . .