**SOLUTION 6**

#include<iostream>

using namespace std;

int factorial(int n){

if(n==1){

return 1; }

return n\*factorial(n-1);

}

int main() {

int number;

cout << "Enter a number: ";

cin >> number;

int fact = factorial(number);

std::cout << "Factorial of " << number << " is " << fact << endl;

}

