**15. Factorial of a number using for loop**

**PROGRAM:**

#include <iostream>

using namespace std;

int main() {

int num;

unsigned long long factorial = 1;

cout << "Enter a positive integer: ";

cin >> num;

if (num < 0) {

cout << "Factorial is not defined for negative numbers." << endl;

}

else {

for (int i = 1; i <= num; ++i) {

factorial \*= i;

}

cout << "Factorial of " << num << " = " << factorial << endl;

}

return 0;

}

OUTPUT:

