#include <iostream>

#include <vector>

#include <iomanip>

using namespace std;

int main()

{

int i, N;

double Nfactorial;

cout << "Enter a positive integer: ";

cin >> N;

Nfactorial = 1;

for (int i = 1; i <= N-1; ++i)

{

Nfactorial = Nfactorial \* (i + 1);

//cout << left << setw(5) << i << setw(5) << i \* i << setw(5) << i \* i \* i << endl;

}

cout << "Factorial of " << N << " = " << Nfactorial << endl;

return 0;

}

#include <iostream>

#include <vector>

using namespace std;

int main()

{

int N;

double Nfactorial, e;

cout << "Enter a positive integer for level of accuracy: ";

cin >> N;

Nfactorial = 1;

e = 1;

for (int i = 0 ; i <= N - 1; ++i)

{

Nfactorial = Nfactorial \* (i + 1);

e += 1 / Nfactorial;

}

cout << "e = " << e << endl;

return 0;

}

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int N;

double Nfactorial, etox, x;

cout << "Enter a positive integer for level of accuracy: ";

cin >> N;

cout << "Enter x value: ";

cin >> x;

Nfactorial = 1;

etox = 1;

for (int i = 0; i <= N - 1; ++i)

{

Nfactorial = Nfactorial \* (i + 1);

etox += pow(x,i+1) / Nfactorial;

}

cout << "e^x = " << etox << endl;

return 0;

}