1.

#include<iostream>

using namespace std;

int main()

{

    int x, n, power = 1;

    cout << "Enter value of x, n: ";

    cin >> x >> n;

    for(int i = 0; i < n; i++)

        power = power \* x;

    cout << "The result is " << power <<endl;

    return 0;

}

2.

#include<iostream>

using namespace std;

int factorial (int n)

{

    if(n > 1)

        return (n \* factorial(n-1));

}

int main()

{

    int n;

    cout << "Enter value of n: ";

    cin >> n;

    cout<<"The factorial is " << factorial(n)<<endl;

    return 0;

}

3.

#include<iostream>

using namespace std;

int main()

{

    int count = 1, factorial = 1;

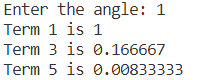
    float term = 0, quotient = 1, x;

    cout<<"Enter the angle: ";

    cin>>x;

    for(int i = 1; i <= 5; i = i + 2)

    {

        for (int j = 1; j <= i; j++)

            factorial = factorial \* j;

        for(int k = 0; k < i; k++)

            quotient = quotient \* x;

        term = quotient / factorial;

        cout << "Term " << i << " is " << term << endl;

        factorial = 1, quotient = 1;

    }

    return 0;

}

4.

#include<iostream>

using namespace std;

int main()

{

    int n, flag = 0;

    cout<<"Enter value of n: ";

    cin>>n;

    for(int i = 2; i < n; i++)

    {

        if(n % i == 0)

        {

            flag = 1;

            cout<<"The number is not a prime number\n";

            break;

        }

    }

    if(flag == 0)

        cout<<"The number is a prime number\n";

    return 0;

}

5.

#include<iostream>

using namespace std;

int main()

{

    int n, revnum = 0;

    cout<<"Enter a four digit number: ";

    cin>>n;

if(n < 999 || n > 9999){

        cout << "The entered number is invalid" << endl;

        return 0;

    }

    for(int i = 0; i < 4; i++)

    {

        revnum = revnum \* 10;

        revnum = revnum + (n % 10);

        n = n / 10;

    }

    cout <<"The reversed number is "<<revnum<<endl;

    return 0;

}