```
#include <iostream>
using namespace std;
//similar dicussion that is mentioned in the "Sum of N nutural Number"
int factorialloops(int n)
{
    int fac = 1;
    for (int i = 1; i <= n; i++)</pre>
        fac = fac * i;
    return fac;
}
int factorialrecursion(int n)
{
    if (n == 0)
        return 1;
    }
    else
        return factorialrecursion(n - 1) * n;
    }
int main()
    cout<<"Function call due to loops"<<endl;</pre>
    cout<<factorialloops(5)<<endl;</pre>
    cout<<"Function call due to recursion"<<endl;</pre>
    cout << factorialrecursion(5) << endl;</pre>
    return 0;
}
```