

# Group 51

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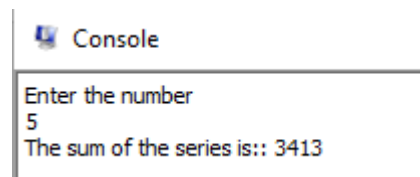
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## Q1)

Sum of the series pseudo code in c

```
##include <stdio.h>
#
#int mul(int m){
#    if(n==0)return 0;
#    int num = fact(m-1);
#    int sum = 1;
#    for(int i=0;i<m;i++)sum *= m;
#
#    return num + sum;
#}
#
#int main(){
#    int n;
#    printf("Enter the number \n");
#    scanf("%d",&n);
#    int ans = fact(n);
#    printf("%d", ans);
#}
```

## Sample Test Cases



Console


Enter the number  
5  
The sum of the series is:: 3413

## Q2)

Collatz steps pseudo code in c

```
##include <stdio.h>
#
#int step = 0;
#
#void collatz(int n){
#    if(n==1)return;
#
#    if(n%2 == 0){
#        n = n/2;
#    }else{
#        n = 3*n + 1;
#    }
#    |
#    collatz(n);
#
#    step++;
#}
#
#
#int main(){
#    int n = 10;
#    collatz(n);
#    printf("%d",step);
#}
```

Sample Test Case

 Console

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Enter the number  
10  
The number of step required is:: 6|