```
#include <stdio.h>
#include <math.h>
 1
 3
      int main()
 4
            int j,n,x, sign=-1;
float radX, sum=0.0;
 5
 6
7
            long factorial(num) {
 8
                 int i;
                 long fact = 1;
for(i=1;i<=num;i++){</pre>
 9
10
                       fact *= i;
11
12
13
                  return fact;
14
           printf("Enter value of n: \t");
scanf("%d",&n);
15
16
             printf("Enter value of x: \t");
17
            scanf("%d", &x);
radX = x * 3.1415 / 180;
for(j=1;j<=n;j+=2){
18
19
20
                  sign *= -1;
sum += sign * (pow(radX, j)/factorial(j));
21
22
23
            printf("Sin(%d) = %f",x,sum);
printf("Sin(%d) = %f",x,sin(radX));
24
25
26
            return 0;
27
28
```