

## **DAILY ONLINE ACTIVITIES SUMMARY**

<b>Date:</b>	07-07-2020	<b>Name:</b>	Chetana H
<b>Sem &amp; Sec</b>	6 <sup>th</sup> -A	<b>USN:</b>	4AL17CS021
<b>Online Test Summary</b>			
<b>Subject</b>	CGV		
<b>Max. Marks</b>	30	<b>Score</b>	-
<b>Certification Course Summary</b>			
<b>Course</b>			
<b>Certificate Provider</b>		<b>Duration</b>	
<b>Coding Challenges</b>			
<b>Problem Statement:</b> Python Program to Find the Sum of Cosine Series			
<b>Status:</b> Solved			
<b>Uploaded the report in GitHub</b>		yes	
<b>If yes Repository name</b>		<a href="https://github.com/chetana-H/online-course2">https://github.com/chetana-H/online-course2</a>	
<b>Uploaded the report in slack</b>		yes	

# ONLINE CODING

## Python Program to Find the Sum of Cosine Series

```
import math

def cosine(x,n):

    cosx = 1

    sign = -1

    for i in range(2, n, 2):

        pi=22/7

        y=x*(pi/180)

        cosx = cosx + (sign*(y**i))/math.factorial(i)

        sign = -sign

    return cosx

x=int(input("Enter the value of x in degrees:"))

n=int(input("Enter the number of terms:"))

print(round(cosine(x,n),2))
```

main.py

```
1 import math
2 def cosine(x,n):
3     cosx = 1
4     sign = -1
5     for i in range(2, n, 2):
6         pi=22/7
7         y=x*(pi/180)
8         cosx = cosx + (sign*(y**i))/math.factorial(i)
9         sign = -sign
10    return cosx
11 x=int(input("Enter the value of x in degrees:"))
12 n=int(input("Enter the number of terms:"))
13 print(round(cosine(x,n),2))
```



input

```
Enter the value of x in degrees:12
Enter the number of terms:54
0.98
```