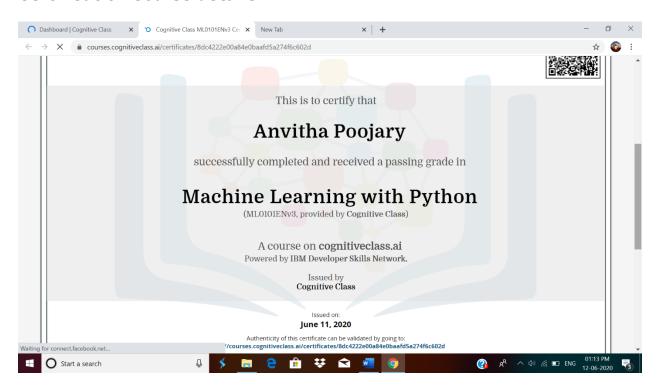
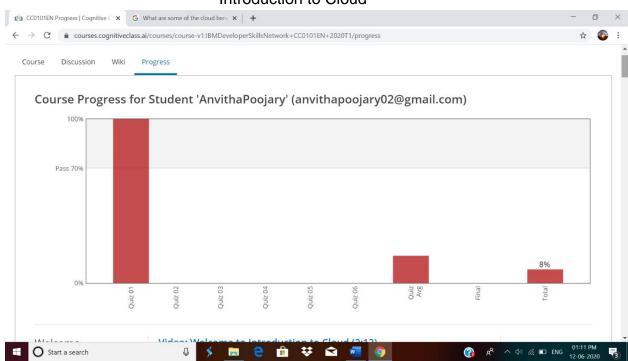
DAILY ONLINE ACTIVITIES SUMMARY

12-06-2020		Name:	Anvitha Poojary		
6A		USN:	4AL17CS008		
Online Test Summary					
-					
-		Score	-		
Certification Course Summary					
Introduction to Cloud					
		Duration		6hr	
Coding Challenges					
Problem Statement: 1.Write a Python program to implement Magic Square 2. Python program to print the pattern					
Status: completed					
Uploaded the report in Github			Yes		
If yes Repository name			https://github.com/anvithapo99/Daily-Report		
Uploaded the report in slack			Yes		
	t: ogram to print	Certification Co coduction to Cloud er COGNITIVE CLASS .ai Coding Ch t: ogram to implement Magic Square oprint the pattern ert in Github	Certification Course Summary Coduction to Cloud Coding Challenges Coding Challenges	Online Test Summary Score Certification Course Summary Oduction to Cloud Er COGNITIVE CLASS .ai Coding Challenges t: Oggram to implement Magic Square O print the pattern To implement Magic Square O print the pattern The image of the image of the pattern	

Certification course details:



Introduction to Cloud



Coding Challenges Details:

1. Write a Python program to implement Magic Square

A magic square of order n is an arrangement of n^2 numbers, usually distinct integers, in a square, such that the n numbers in all rows, all columns, and both diagonals sum to the same constant. A magic square contains the integers from 1 to n^2.

The constant sum in every row, column and diagonal is called the magic constant or magic sum, M. The magic constant of a normal magic square depends only on n and has the following value:

```
 \begin{aligned} &M = n(n^2+1)/2 \\ &example \\ &Magic Square of size 5 \end{aligned} 
 9  3  22  16  15 \\ 2  21  20  14  8 \\ 25  19  13  7  1 \\ 18  12  6  5  24 \\ 11  10  4  23  17 \\ &Sum in each row  &each column = <math>5*(5^2+1)/2 = 65   \\ &def generate Square(n): \\ &magic Square = [[0  for  x  in  range(n)] \\ &for  y  in  range(n)] \\ &i = n/2 \\ &j = n-1 \\ &num = 1 \end{aligned}
```

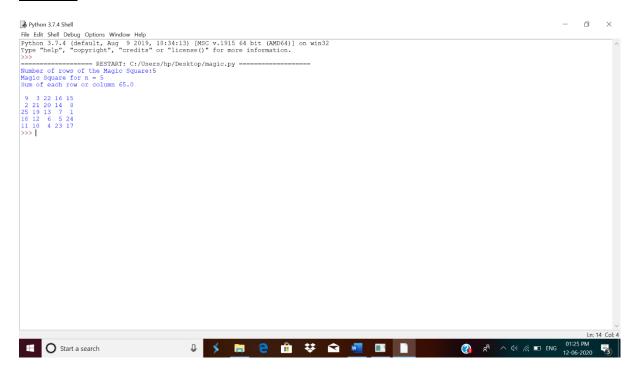
while num \leftarrow (n * n):

```
if i == -1 and j == n:
    j = n - 2
    i = 0
  else:
    if j == n:
      j = 0
    if i < 0:
       i = n - 1
  if magicSquare[int(i)][int(j)]:
    j = j - 2
    i = i + 1
    continue
  else:
     magicSquare[int(i)][int(j)] = num
    num = num + 1
  j = j + 1
  i = i - 1
print ("Magic Square for n =", n)
print ("Sum of each row or column",n * (n * n + 1) / 2, "\n")
for i in range(0, n):
  for j in range(0, n):
    print('%2d ' % (magicSquare[i][j]),end = ")
    if j == n - 1:
       print()
```

n=int(input("Number of rows of the Magic Square:"))

generateSquare(n)

output:



2. Python program to print the pattern

```
*

* * *

* * *

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* * * *

* * * *

* * *

def pattern(n):

k = 2 * n - 2

for i in range(0, n-1):

for j in range(0, k):
```

print(end=" ")

```
k = k - 2
for j in range(0, i + 1):
    print("* ", end="")
    print("")
k = -1
for i in range(n-1,-1,-1):
    for j in range(k,-1,-1):
        print(end="")
    k = k + 2
    for j in range(0, i + 1):
        print("* ", end="")
    print("")
```

pattern(5)

output:

