

## DAILY ONLINE ACTIVITIES SUMMARY

<b>Date:</b>	12-06-2020	<b>Name:</b>	D Jasmine Joyline
<b>Sem &amp; Sec</b>	VI Sem A	<b>USN:</b>	4AL17CS024
<b>Online Test Summary</b>			
<b>Subject</b>	-		
<b>Max. Marks</b>	30	<b>Score</b>	-
<b>Certification Course Summary</b>			
<b>Course</b>	ONLINE PYTHON MASTER CLASS		
<b>Certificate Provider</b>	eBOX	<b>Duration</b>	1.5hr
<b>Coding Challenges</b>			
<b>Problem Statement:</b> <ol style="list-style-type: none"> <li>1. Python program to print the pattern</li> <li>2. Write a Python program to implement Magic Square</li> </ol>			
<b>Status:Completed</b>			
<b>Uploaded the report in Github</b>		<b>Yes</b>	
<b>If yes Repository name</b>		<a href="https://github.com/alvas-education-foundation/D_Jasmine_Joyline/tree/master/daily_progress">https://github.com/alvas-education-foundation/D_Jasmine_Joyline/tree/master/daily_progress</a>	
<b>Uploaded the report in slack</b>		<b>Yes</b>	

Not conducted

## Online Python Master Class through Zoom-

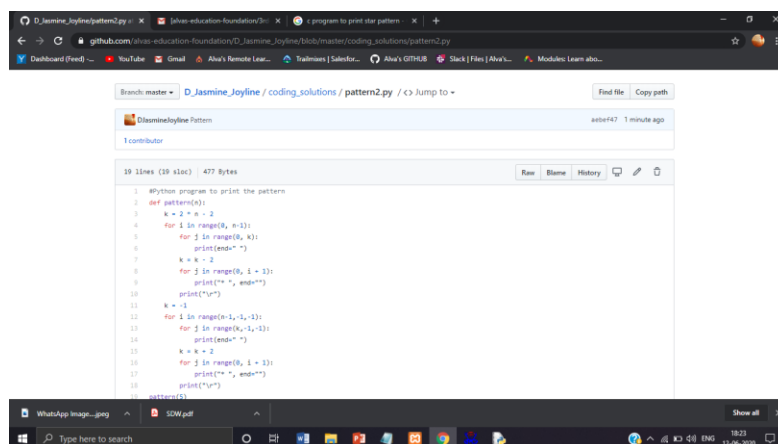
Topics covered are:

- ```

C:\Users\user> python3 test.py
Hello World!
Bye!
C:\Users\user>

```

### 1. Python program to print the pattern



## 2 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:

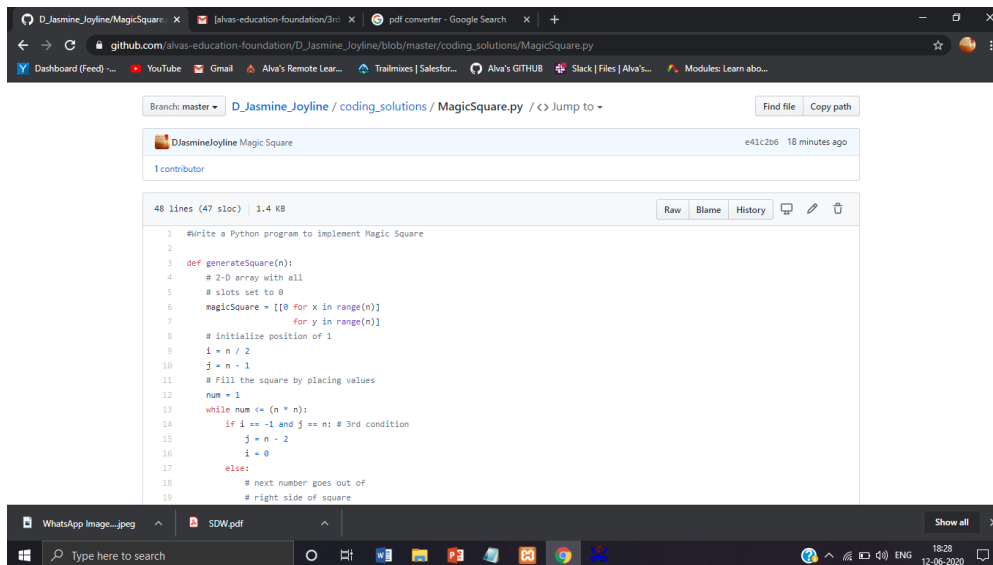
$$M = n(n^2+1)/2$$

example

Magic Square of size 5

```
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 =  $5*(5^2+1)/2 = 65$



The screenshot shows a web browser displaying a GitHub repository page for a Python program to implement a Magic Square. The repository is named "D\_Jasmine\_Joyline / coding\_solutions / MagicSquare.py". The code is displayed in a light blue editor with line numbers 1 through 19. The code defines a function `generateSquare(n)` that creates a 2D array with all slots set to 0, initializes the position of 1, and fills the square by placing values. The code includes comments and a while loop to handle the placement of numbers.

```
1 #Write a Python program to implement Magic Square
2
3 def generateSquare(n):
4     # 2-D array with all
5     # slots set to 0
6     magicSquare = [[0 for x in range(n)]
7                     for y in range(n)]
8     # initialize position of 1
9     i = n / 2
10    j = n - 1
11    # Fill the square by placing values
12    num = 1
13    while num <= (n * n):
14        if i == -1 and j == n: # 3rd condition
15            j = n - 2
16            i = 0
17        else:
18            # next number goes out of
19            # right side of square
```