Patterns-notes

"

```
#patterns
'''Output:

* * * * *
* * * * *
* * * * *
* * * * *
* * * * *


n=5
for i in range(1,n+1):
    for j in range(1,n+1):
        print('*',end=' ')
    print()
'''

#wap to print primary daigonal
'''
Output:enter the no .of rows and columns:5
*
  *
   *
    *
     *



n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==j:
            print('*',end=' ')
```

```
        else:
            print(' ',end=' ')
      print()
```

'''

#wap to print upper primary daigonal
'''
Output:enter the no .of rows and columns:5
 * * * *
  * * *
   * *
    *
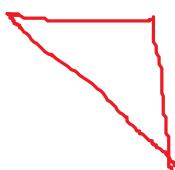
```
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i<j:
            print('*',end=' ')

        else:
            print(' ',end=' ')
      print()
```

'''
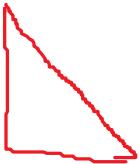
#wap to print lower primary traingle
'''
Output:enter the no .of rows and columns:5

*
* *
* * *
* * * *

```
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i>j:
```

```python
        print('*',end=' ')
    else:
        print(' ',end=' ')
    print()

'''
#wap to print secondary daigonal
'''
Output:-enter the no .of rows and columns:5
    *
   *
  *
 *
*


n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i+j==n+1:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()
'''
#
'''Output:  enter the no .of rows and columns:5

    *
   * *
  * * *
 * * * *
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i+j>n+1:
            print('*',end=' ')

        else:
```

```
        print(' ',end=' ')
    print()

'''
#wap to print secondary upper traingle
'''

Output:enter the no .of rows and columns:5
* * * *
* * *
* *
*

n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i+j<n+1:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()


'''
#wap to print primary and secondary diagonal together(X)
'''
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==j or i+j==n+1:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()

'''

#wap to print below pattern
'''
```
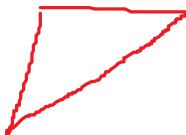
Output:
   enter the no .of rows and columns:5
@
* @
* * @
* * * @
* * * * @

```python
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==j:
            print('@',end=' ')
        elif i>j:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()
```
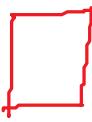
'''
#wap to print below pattern
'''

output:
   enter the no .of rows and columns:5
$
$ &
$ & &
$ & & &
$ & & & &

```python
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i+j==n+1:
            print('$',end=' ')
        elif i+j<n+1:
            print('#',end=' ')

        else:
            print('&',end=' ')
```

```
    print()

'''
#wap to print below pattern
'''
enter the no .of rows and columns:5
1 0 0 0 0
0 1 0 0 0
0 0 1 0 0
0 0 0 1 0
0 0 0 0 1


n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==j :
            print('1',end=' ')

        else:
            print('0',end=' ')
    print()

'''
#wap to print below pattern
'''
enter the no .of rows and columns:5
* * * * *
*       *
*       *
*       *
* * * * *
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==1 or i==n or j==1 or j==n:
            print('*',end=' ')

        else:
            print(' ',end=' ')
```
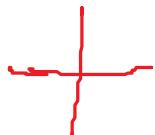
```
        print()

'''
#wap to print below pattern
'''
Output:

enter the no .of rows and columns:5
    *
    *
* * * * *
    *
    *


n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==n//2+1 or j==n//2+1:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()
'''
#wap to print below pattern

'''
enter the no .of rows and columns:7
* * * * * * *
* *   *   *   *
*   * * *   *
* * * * *   *   *
*   * * *   *
* *   *   * *
* * * * * * *
n=int(input('enter the no .of rows and columns:'))
for i in range(1,n+1):
    for j in range(1,n+1):
        if i==n//2+1 or j==n//2+1 or i==1 or i==n or j==1 or j==n or i==j or i+j==n+
1:
```
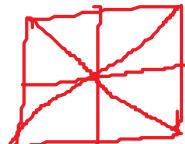
```
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()
'''

#wap
'''

enter the no .of rows :5
          *
       *        *
      *           *
     *             *
   * * * * * * * * *
```
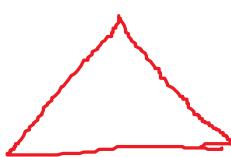
```
n=int(input('enter the no .of rows :'))
c=n*2-1
for i in range(1,n+1):
    for j in range(1,c+1):
        if i==n or i+j==n+1 or j-i==n-1:
            print('*',end=' ')

        else:
            print(' ',end=' ')
    print()
'''
```

#wap to print below pattern
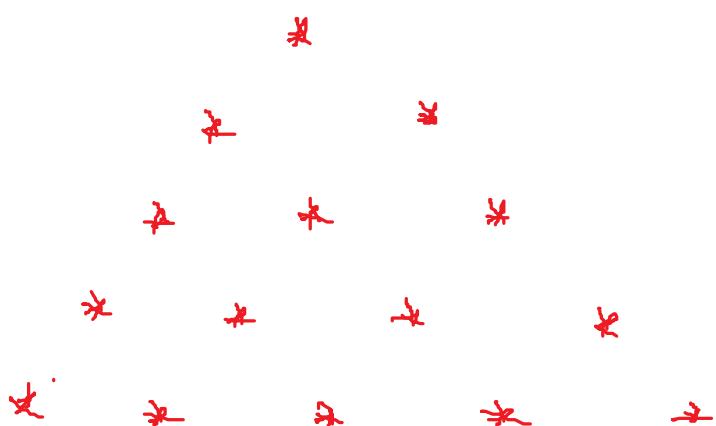
```
'''
Output:
     *
   *  *
   * * *
  * * * *
 * * * * *
* * * * * *
* * * * * * *

n=7
```

```
for i in range(1,n+1):
    for space in range(1,n+1-i):
        print(' ',end='')

    for start in range(1,i+1):
        print('*',end=' ')
    print()
'''
```