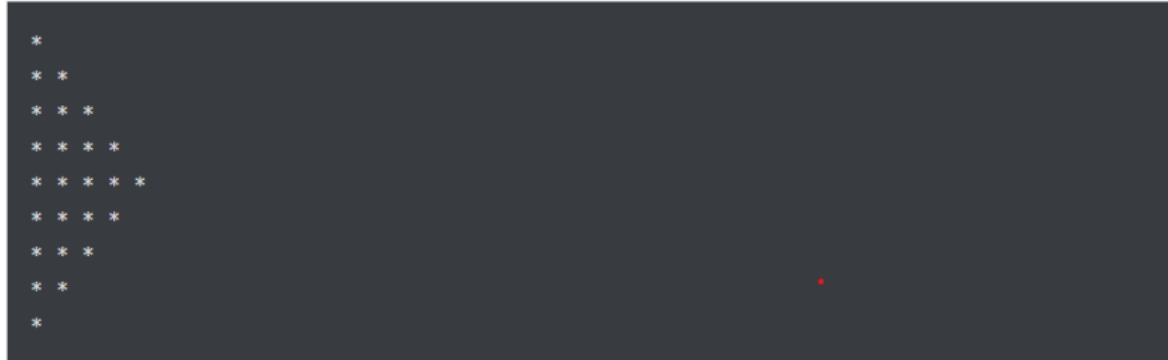


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1. Use a python code to display the following star pattern using the for loop



```
In [16]: #q1
for i in range(6):
    for j in range(i):
        print("*", end = " ")
    print("")

for i in range(4, 0, -1):
    for j in range(i):
        print("*", end = " ")
    print("")
```

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * * *
* * *
* *
*
```

Q2. Use looping to output the elements from a provided list present at odd indexes. my_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]

```
In [17]: #q2
my_list = [10,20,30,40,50,60,70,80,90,100]
temp = []
for i in my_list[1::2]: #starts from zero but we want odd
    temp.append(i)
print(temp)
```

```
[20, 40, 60, 80, 100]
```

Q3 Write a code that appends the type of elements from a given list. Input x = [23, 'Python', 23.98]
Expected output [23, 'Python', 23.98] [, ,]

```
In [18]: #q3
x = [23, 'python' , 23.98]
temp = []
for i in x :
    temp.append(type(i))
print(x)
print(temp)

[23, 'python', 23.98]
[<class 'int'>, <class 'str'>, <class 'float'>]
```

Q4. Write a function that takes a list and returns a new list with unique items of the first list. Sample List: [1,2,3,3,3,3,4,5] Unique List: [1, 2, 3, 4, 5]

```
In [21]: #q4
def unique(s):
    temp = list(set(s)) # unique
    print("Unique list is: ",temp)
s1=[]
n = int(input("length of the list"))
for i in range(0,n):
    s= int(input())
    s1.append(s)
unique(s1)

length of the list3
1
2
2
Unique list is:  [1, 2]
```

Q5 Write a function that accepts a string and calculate the number of upper-case letters and lower-case letters. Input String: 'The quick Brow Fox' Expected Output: No. of Upper-case characters: 3 No. of Lower-case Characters: 12

```
In [22]: #q5
x = input("enter the string: ")
uppercount = 0
lowercount = 0
for i in x:
    if i.isupper():
        uppercount= uppercount+1
    if i.islower():
        lowercount = lowercount + 1
print("Number of Upper case letters:",uppercount)
print("Number of Lower case letters:",lowercount)
```

```
enter the string: aa AA
Number of Upper case letters: 2
Number of Lower case letters: 2
```