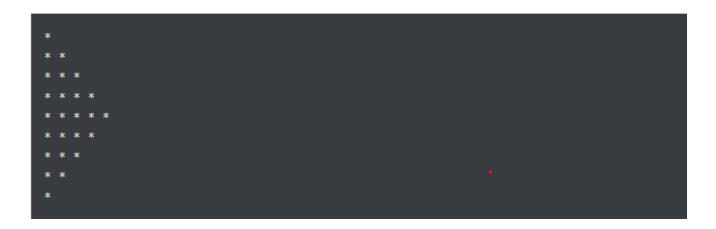
## Summer 2024: CS 5710 – Machine Learning

## **Programming Assignment-2**

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



2. Use looping to output the elements from a provided list present at odd indexes.

$$my_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]$$

3. 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]
[<class 'int'>, <class 'str'>, <class 'float'>]
```

4. 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]
```

5. 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

## \*\* Follow the rubric guidelines.

## **Submission Guidelines:**

- 1. Once finished document your code and make sure all parts if the assignments are completed.
- 2. Push your code to your GitHub repo and update the ReadMe file, add your info.
- 3. Submit the assignment before the deadline.
- 4. Record a short video  $(1\sim3)$  minute, proof of execution and complete assignment.
- 5. Add video link to ReadMe file.