

## MACHINE LEARNING ASSIGNMENT2

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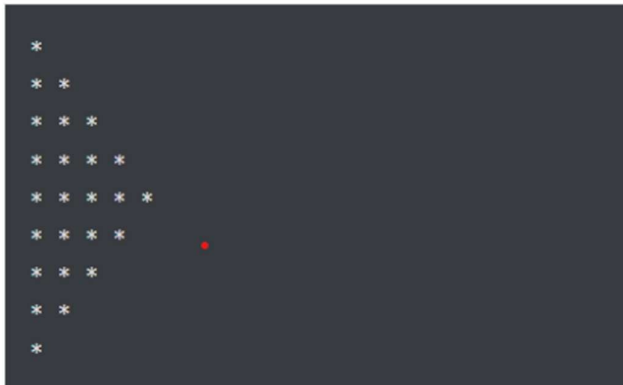
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GitHub link: <https://github.com/Anjali555-erra/MLAsssignment2.git>

Video link:

[https://drive.google.com/file/d/1Zscbz67A5SRj0jlI24jKatp0f9p\\_3hwE/view?usp=share\\_link](https://drive.google.com/file/d/1Zscbz67A5SRj0jlI24jKatp0f9p_3hwE/view?usp=share_link)

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



Source code:

```
#star pattern using the for loop
```

```
for i in range(0,6):
```

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

```
        print("*",end=" ")
```

```
    print("\n")
```

```
for k in range(4,-1,-1):
```

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

```
        print("*",end=" ")
```

```
    print("\n")
```

output:

```

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

```

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]`

Source code:

`#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]`

`#the index starts from 0 so the output will be [20,40,60,80,100]`

`for i in range(len(my_list)):`

`if((i%2)!=0):`

`print(my_list[i])`

output:

```

20
40
60
80
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'> ]`

```

#Write a code that appends the type of elements from a given List.
x = [23, "Python", 23.98]
#type function will help to get the datatype of the particular elementx
for i in x:
    print(type(i),end=" ")

```

`<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]`

#### Source code:

```
#@sample list
list=[1,2,3,3,3,3,4,5]

new_list=[]
for i in list:
    if i not in new_list:
        #initially the single elements will appends to thelist if theelement is unique it appends to
the list
        new_list.append(i)

print(new_list)
```

#### output:

```
[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

#### Source code:

```
string='The quick Brow Fox'
upperCase=0;
lowerCase=0;
for i in string:
    #ord function is used to get the ascii value of the alphabet
    if(ord(i)>=65 and ord(i)<=90):
        upperCase=upperCase+1
    elif(ord(i)>=97 and ord(i)<=122):
        lowerCase=lowerCase+1
print("No. of Upper-case characters: ",upperCase)
print("No. of Lower-case characters: ",lowerCase)
```

#### output:

```
No. of Upper-case characters: 3
No. of Lower-case characters: 12
```