ML ASSINGMENT-2

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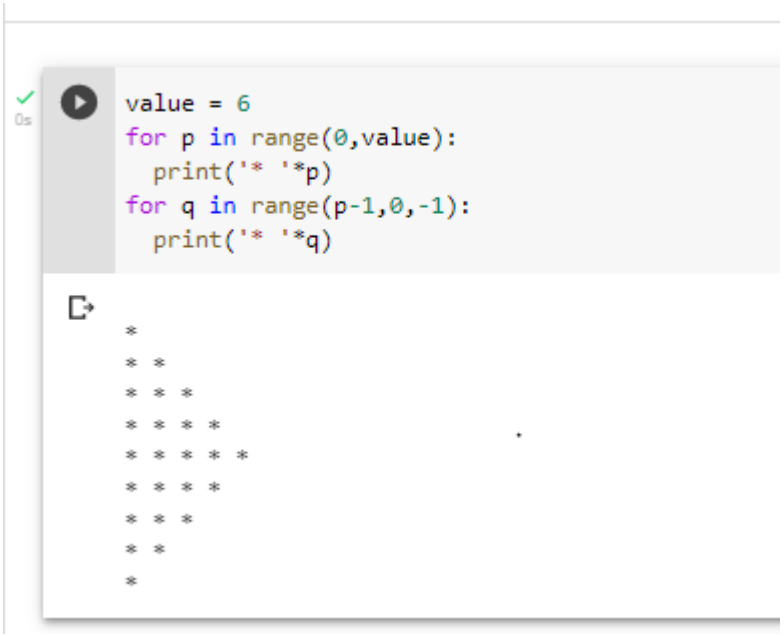
Github: https://github.com/nishath0708/Machine-learning-ass

Video link: https://drive.google.com/file/d/11o_lX-gmrFOgvKVe-GNB-ZTovtseDNpO/view?usp=sharing

Question-1:

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



```
value = 6
for p in range(0,value):
  print('* '*p)
for q in range(p-1,0,-1):
  print('* '*q)
```

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

Question-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]

```
my_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
length = len(my_list)
for item in range(0, length):
    if item%2 != 0:
        print(my_list[item])
```

```
20
40
60
80
100
```

Question-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’>]

```
[33] x = [23, "Python", 23.98]
     y = []
     for item in range(len(x)):
       y.append(type(x[item]))
     print(x)
     print(y)
```

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

Question-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]

```
[22] x=[1,2,3,3,3,3,4,5]
     def fun(list_1):
         list_2 = list(set(list_1))
         return list_2
     print(fun(x))
```

```
[1, 2, 3, 4, 5]
```

Question-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

```
g='The quick Brow Fox'
def fun(st1):
    u = 0
    l = 0
    for item in st1:
        if item.isupper():
            u=u+1
        elif item.islower():
            l=l+1
        else:
            continue
    print('No. of Upper-case Characters: ' + str(u))
    print('No. of Lower-case Characters: ' + str(l))
fun(g)
```

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