Machine learning

Assignment-02

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Github link: https://github.com/puli1757/ML_Assignment2

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

    star='*¹

           for i in range(1,6):
              for j in range(1,i):
    print("*",end=' ')
print("\r")
          print("\r")
for i in range(6,1,-1):
    for j in range(1,i):
        print("*",end=' ')
    print("\r")
     ₽*
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'>]
   x = [23, 'Python', 23.98]
types = []
for i in x:
             types.append(type(i))
         print(x)
    [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]
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 sample_List=[1,2,3,3,3,3,4,5]
          unique List=[]
         for i in sample_List:
    if i not in unique_List:
        unique_List.append(i)
print(sample_List)
          print(unique_List)
          [1, 2, 3, 3, 3, 3, 4, 5]
[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

```
def count_case(string):
    upper_count = 0
    lower_count = 0
    for char in string:
        if char.isupper():
            upper_count += 1
        elif char.islower():
            lower_count += 1
        return upper_count, lower_count

input_string = 'The quick Brow Fox'
    upper_count, lower_count = count_case(input_string)

print("No. of Upper-case characters:", upper_count)
print("No. of Lower-case Characters:", lower_count)
No. of Upper-case characters: 3
No. of Upper-case Characters: 12
```