

Machine Learning (Assignment 2)

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Question 1: Python code to display the star pattern using the for loop.

```
In [1]: #Question 1

def pattern(n):

    for i in range (1, n+1):
        for j in range (1, i+1):
            print (" *",end=" ")
        print()

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

pattern(5)

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

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

```
In [3]: #Question 2

my_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
my_list[::2]
```

```
Out[3]: [10, 30, 50, 70, 90]
```

Question 3:

```
In [4]: #Question 3

n = [23, 'Python', 23.98]
m=n
print(m)
print(type(n[0]),type(n[1]),type(n[2]))

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

Question 4: A function that takes a list and returns a new list with unique items of the first list.

```
In [2]: #Question 4

d = [1,2,3,3,3,3,4,5]
output = []
for x in d:
    if x not in output:
        output.append(x)
print(output)

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

Question 5: A function that accepts a string and calculate the number of upper-case letters and lower-case letters.

```
In [5]: #Question 5

b='The quick Brow Fox'
a=sum(1 for c in b if c.isupper())
print("No. of Upper-case characters:",a)
c=sum(1 for c in b if c.islower())
print("No. of Lower-case Characters:",c)

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

Git repo link:

<https://github.com/JagadeeswarChimata/ML-Assignment-2.git>