Machine Learning ICP2

Question 1:

Question 2:

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# Program 02
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]
for i in range(1,10,2):
    print(my_list[i])

20
40
60
80
```

Question 3:

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# Program 03
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]
print(x)
type_list=[]
for i in x:
    type_list.append(type(i))
print(type_list)

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

Question 4:

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# Program 04
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]

def unique(x):
    unique_list=[]
    for i in x:
        if i not in unique_list:
            unique_list.append(i)
    return unique_list
sample_list=[1,2,3,3,3,4,5]
print(unique(sample_list))
```

[1, 2, 3, 4, 5]

Question 5:

No. Lower-case characters: 12

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# Program 05
Write a function that accepts a string and calculate the number of upper-case letters and lower-case
Input String: 'The quick Brow Fox'
Expected Output:
No. of Upper-case characters: 3
No. of Lower-case Characters: 12
s=input("Enter your string: ")
upper_count=lower_count=0
for i in s:
    if i.isupper():
        upper_count+=1
    elif i.islower():
        lower count+=1
print('No. Uppper-case characters:',upper_count)
print('No. Lower-case characters:',lower_count)
Enter your string: The quick Brow Fox
No. Uppper-case characters: 3
```