◆ Question 1: Name Vowels from Long Names

Task: - List of 5 people - Check names with length > 5 - Extract vowels from those names - Store vowels in a new list

```
list = ["sriram","sairam","divakar","ravi","raju"]

word = []

for i in list:

    if len(i)>5:

        for j in i:

            if j in "aeiouAEIOU":

                print(j)

                word.append(j)

print(word)
```

o/p: -- ['i', 'a', 'a', 'i', 'a', 'i', 'a', 'a']

◆ Question 2: Vowels from Odd Index in Sentence

Task: - Given a sentence - Pick characters at odd indices only - From those, extract vowels - Concatenate those vowels and find length

```
str = str(input("enter the sentence:-- "))

list = ""

for i in range(0,len(str)):

    if i % 2 != 0:

        for j  in str[i]:

            if j in "aeiouAEIOU":

                list += j

                print(j)

print(list)

print(len(list))
```

◆ Question 3: Concat Strings & Find Length from List

Task: - List with mixed items - Extract only strings - Concatenate all strings - Print total length of final string

```
list = ["decentboy",22,"sriram",88.6,"kolla",(1,2,3,4),["a","b","c"],"17","95"]

set = ""

for i in range(0,len(list)):

    if type(list[i]) == str:

        for j in list[i]:

            set += j

print(set)

print(len(set))
```

o/p :-   decentboysriramkolla1795

length of the str : -- 24

◆ Question 4: Extract 2-Digit Numbers from List

Task: - List with mixed data types (int, str, etc.) - Extract only numbers that are 2-digit (10 to 99) - Include both integer and numeric strings - Push them into a new list and print it

Sir I don't how to do this could you please explain me in class