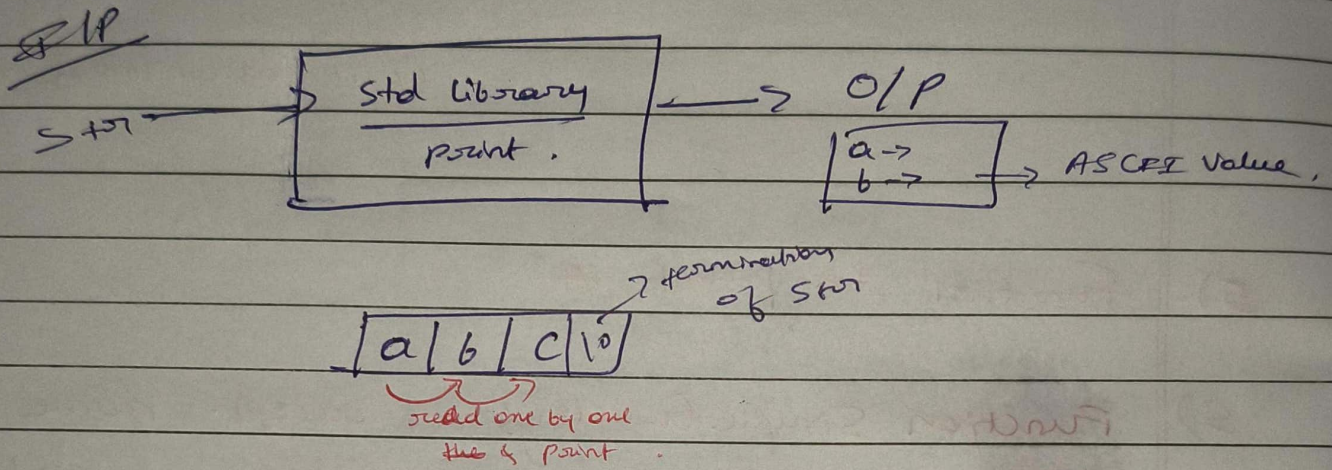
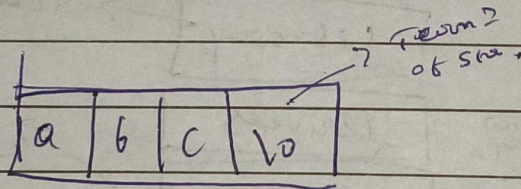


Coding Workshop - 2

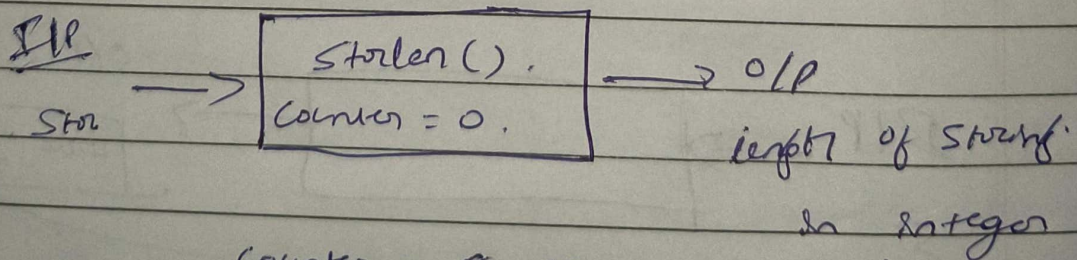
6) Function to print ASCII Values of String Input



7) Function to get String length to get string length



- ① Go over each char → loop
- ② Counter -
- ③ Str



Counter = Counter + 1

or,

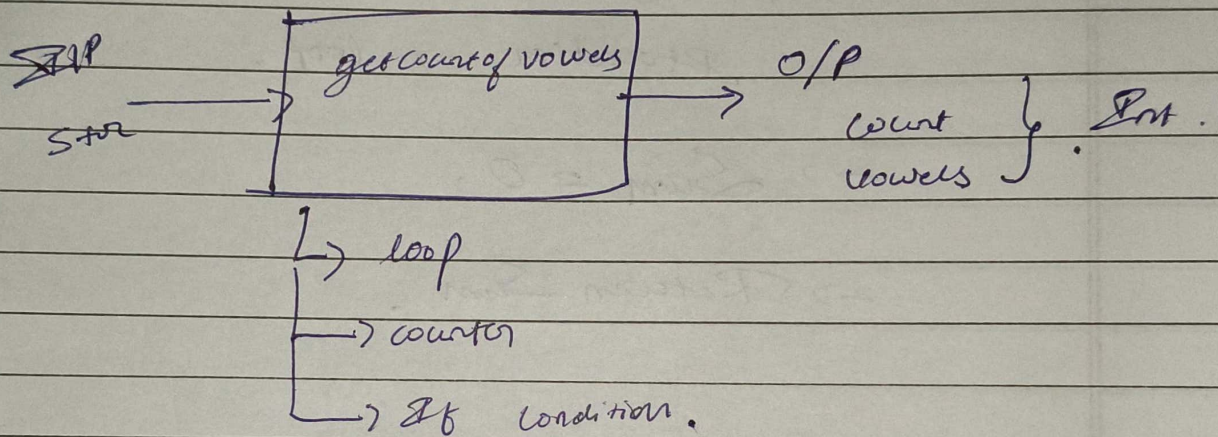
Counter ++ ;

8) function to Count vowels get Count Of O vowel for a given String.

a e i o u

A E I O U

use Counter



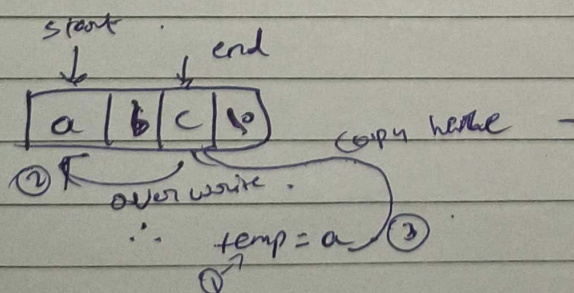
9) Function to Reverse String reverse String

Ex.

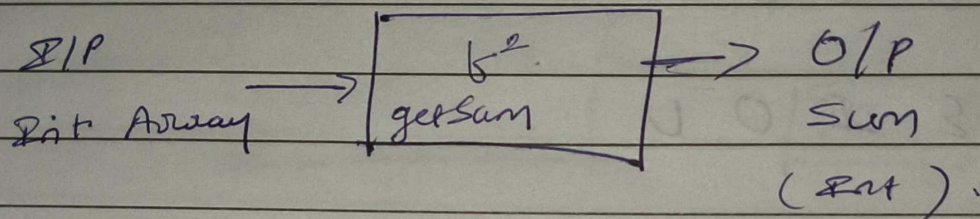
a	b	c	\0
---	---	---	----

c	b	a	\0
---	---	---	----

In place / change here only
or
In memory
no using extra str.



10) Function to get sum of all elements in the integer array getSum.



→ Read one value at a time
Iteration → loop.

→ Sum = 0.

→ Return Sum.

3_Coding_workshop_in_python > Coding_workshop_part1 > 6_ASCIIvalue.py > ...

```
1 def printASCIIofString(string):
2     for character in string:
3         print(f"{character} ->{ord(character)}") #ord is ASCII value finder
4
5 printASCIIofString("raj")
6
7
8 def printASCIIofString2(string2):
9     for character2 in string2:
10         ASCII_value = ord(character2)
11         print(f"{character2} ->{ASCII_value}") #ord is ASCII value finder
12
13 printASCIIofString("abc")
```

Coding_workshop_in_python > Coding_workshop_part1 > 7_strlength.py > str_length2

```
1 def str_length(string):  
2     counter = 0  
3     for character in string:  
4         counter += 1  
5  
6     return counter
```

```
7  
8 input = "None" #None -> null but running "None"  
9 print(f"string length of {input} is {str_length(input)}")
```

```
10  
11 input2 = ""  
12 print(f"string length of {input2} is {str_length(input2)}")
```

```
13  
14 input3 = "R"  
15 print(f"string length of {input3} is {str_length(input3)}")
```

```
16  
17 input4 = "raja"  
18 print(f"string length of {input4} is {str_length(input4)}")
```



```
19
20 # new for NOne IMPORTANT
21
22 def str_length2(string2):
23     counter = 0
24     if string2 != None:
25         for character2 in string2:
26             counter += 1
27
28     return counter
29
30 input = None
31 print(f"string length of {input} is {str_length2(input)}")
32
33 input2 = ""
34 print(f"string length of {input2} is {str_length2(input2)}")
35
36 input3 = "R"
37 print(f"string length of {input3} is {str_length2(input3)}")
38
39 input4 = "raja"
40 print(f"string length of {input4} is {str_length2(input4)}")
```

1st_2_numbers.py

6_ASCIIvalue.py

7_strlength.py

10_getsum.py

8_Vowels.py

3_Coding_workshop_in_python > Coding_workshop_part1 > 8_Vowels.py > count_vowels

```
1  def count_vowels(string)-> int:
2      counter = 0
3      if string != None:
4          for character in string:
5              if (character == 'a' or
6                  character == 'e' or
7                  character == 'i' or
8                  character == 'o' or
9                  character == 'u' or
10                 character == 'A' or
11                 character == 'E' or
12                 character == 'I' or
13                 character == 'O' or
14                 character == 'U' ):
15
16                 counter +=1
17
18     return counter
19 input = None
20 print(f"number of vowels in {input} is = {count_vowels(input)} ")
21
22 input = "raja"
23 print(f"number of vowels in {input} is = {count_vowels(input)} ")
24
25 input = "123"
26 print(f"number of vowels in {input} is = {count_vowels(input)} ")
```



```
20  
21  
22 def revers_string2(string2):
```

```
23     length = len(string2)
```

```
24     revers_string2 = ""
```

```
25     for end in range (length-1,-1,-1):
```

```
26         revers_string2 += string2[end]
```

```
27     return revers_string2
```

```
28  
29  
30  
31 name2 = "raja"
```

```
32 name2 = revers_string2(name2)
```

```
33 print(name2)
```

```
34  
35  
36 def reverse_string(name:str):
```

```
37  
38     if len(name) == 0:
```

```
39         return name
```

```
40     return reverse_string(name[1:]) + name[0]
```

```
41  
42 name = "Raja"
```

```
43 print(reverse_string(name))
```

```
44
```



```
1 #without range function
```

```
2 def getSum(numbers:list)-> int:
```

```
3     sum = 0
```

```
4     for number in numbers:
```

```
5         sum += number
```

```
6     return sum
```

```
7 numbers = [1,2,3]
```

```
8 sumOfNumbers = getSum(numbers)
```

```
9 print(f"sum of numbers = {sumOfNumbers}")
```



```
15
16 #with range function
17
18 def getSum1(numbers1:list)-> int:
19     sum1 = 0
20
21     length = len(numbers1)
22
23     for index in range(0, length, 1):
24         sum1 = sum1 + numbers1[index]
25
26     return sum1
27
28 numbers1 = [1,2,3,4]
29 sumOfNumbers1 = getSum1(numbers1)
30 print(f"sum of numbers = {sumOfNumbers1}")
```