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2. Write a program to perform following operations on string

1. Reverse string.

2. Count vowels and consonants in a string.

3. Count the number of letters in a word.

4. Convert lower letter to upper and upper letter to lower in a string.

5. Count lower, upper, numeric and special characters in a string.

Code:

```
 str = "Python_Practical_2"


#Reverse string

print(str[::-1])


#count vowels and consonants

vowels=0

consonants=0

for i in str:

    if(i == 'a'or i == 'e'or i == 'i'or i == 'o'or i == 'u' or

       i == 'A'or i == 'E'or i == 'I'or i == 'O'or i == 'U' ):
```

```
        vowels=vowels+1#vowel counter is incremented by 1
    else:
        consonants=consonants+1
print("The number of vowels:",vowels)
print("The number of consonant:",consonants)

#count number of letters
print("Number of letters in string:",len(str))

#convert cases
print("String after case conversion:",str.swapcase())

#Count lower, upper, numeric and special characters
upper, lower, num, special=0,0,0,0;
for i in range(len(str)):
  if(str[i]>='A' and str[i]<='Z'):
     upper+=1
  elif(str[i]>='a' and str[i]<='z'):
     lower+=1
  elif(str[i]>='1' and str[i]<='9'):
      num+=1
  else:
```

```
        special+=1
print("Upper case letters: ",upper)
print("Lower case letters: ",lower)
print("numbers: ",num)
print("Special characters: ",special)
```

Output:

```
2_lacitcarP_nohtyP
The number of vowels: 4
The number of consonant: 14
Number of letters in string: 18
String after case conversion: pYTHON_pRACTICAL_2
Upper case letters:  2
Lower case letters:  13
numbers:  1
Special characters:  2
```