

Strings Introduction

```
In [1]: Str="Python"
print(type(Str))    #prints <class 'str'>
print(len(Str))     #prints 6
print(Str[4])       # o
print(Str[-1])      # n
Str[2]='t'          #Type Error
```

```
<class 'str'>
6
o
n
```

```
-----
TypeError                                Traceback (most recent call la
<ipython-input-1-856d73056573> in <module>
      4 print(Str[4])    # o
      5 print(Str[-1])   # n
----> 6 Str[2]='t'      #Type Error
```

TypeError: 'str' object does not support item assignment

```
In [2]: Str="Python"
str1=Str[:len(Str)-1]+'N'
print(str1)
```

```
PythoN
```

```
In [3]: print(Str*3)    #String Replication
```

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PythonPythonPython
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```
In [4]: for i in Str:
        print(i)
```

```
P
y
t
h
o
n
```

```
In [5]: "e1" in "Hello"  #in operator -True
```

```
Out[5]: True
```

```
In [6]: "eo" in "Hello"    #in operator - False
```

Out[6]: False

```
In [8]: word="python"
reverse=word[::-1]
if word == reverse:
    print("Palindrome")
```

```
In [9]: word="python"
reverse=word[::-1]

if word == reverse:
    print("Palindrome")
```

```
In [11]: word="python"
reverse=word[::-1]
print(reverse)
if word == reverse:
    print("Palindrome")
```

nohtyp

```
In [12]: word="python"
reverse=word[::-1]
print(reverse)
if word == reverse:
    print("Palindrome")
else:
    print("Not a Palindrome")
```

nohtyp

Not a Palindrome

```
In [15]: #To count number of vowels in a given string
```

```
word="python programming"
vcount=0
vowels="aeiou"

for ch in word:
    if ch in vowels:
        vcount+=1

print("Number of vowels:",vcount)
```

Number of vowels: 4

In [14]: *#To count number of vowels in a given string*

```
word="python programming"
vcount=0
vowels="aeiou"

for ch in word:
    if ch=='a' or ch=='o' or ch=='i':
        vcount+=1

print("Number of vowels:",vcount)
```

Number of vowels: 4

In []:

