String are Immutable

Strings are an ordered and immutable collection of characters. Mutable objects can be changed after they are created. Immutable objects cannot be changed after they are created. Strings are immutable objects. This means that you cannot change a portion of a string.

In [1]:

```python
from random import randrange

my_str = 'This is a test string'
str_len = len(my_str)
n = randrange(0,str_len) #This statement returns a random number between 0 and 1 less than the length of the string
print(n)
print(my_str[n])

#Trying to change a portion of the string to a different value will cause an error
my_str[n] = 'Z'
```

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```
---------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-1-63dee6de781e> in <module>()
      9
     10 #Trying to change a portion of the string to a different value will cause an error
---> 11 my_str[n] = 'Z'

TypeError: 'str' object does not support item assignment
```

In [ ]:

```python
'''
However, reassigning a different value to the string variable is valid.
'''
my_str = 'This is a test string'
print(my_str)
my_str = 'ThisZis a test string'
print(my_str)
```