

IMMUTABILITY

Immutability in python means that strings cannot be changed once it is assigned and if we want to change the string then we have to reassign the value i.e., we cannot reassign a part of the string once created, strings are immutable in python.

Here is an example where when we try to change the 0th index of the string then while execution of the program an error occurs:

```
4 selfish = '01234567'
5         |         | # 01234567
6 selfish[0] = '8'
7 print(selfish)
```

The following error occurs when the above program is being executed:

```
Traceback (most recent call last):
  File "c:\Users\Rituraj Ghosh\Desktop\Coding\Basics Part 1\tempCodeRunnerFile.python", line 6, in <module>
    selfish[0] = '8'
TypeError: 'str' object does not support item assignment
```

Here, as it is visible from the code that we wanted to change the 0th index of the variable “selfish” i.e., from ‘0’ to ‘8’ and while printing the variable “selfish” we get an error as shown in the 2nd photo. It is clearly written in the last line of the error message “**TypeError: ‘str’ object does not support item assignment**” which means we cannot assign a part of the string with a new string in the middle of the code, if we need to add a new string then we have to completely reassign a new one.