Solution Review: String Transformation

This lesson will give a detailed review of how to update a string.

WE'LL COVER THE FOLLOWING

Solution: Use `len()` and `concatenation(+)` Operation

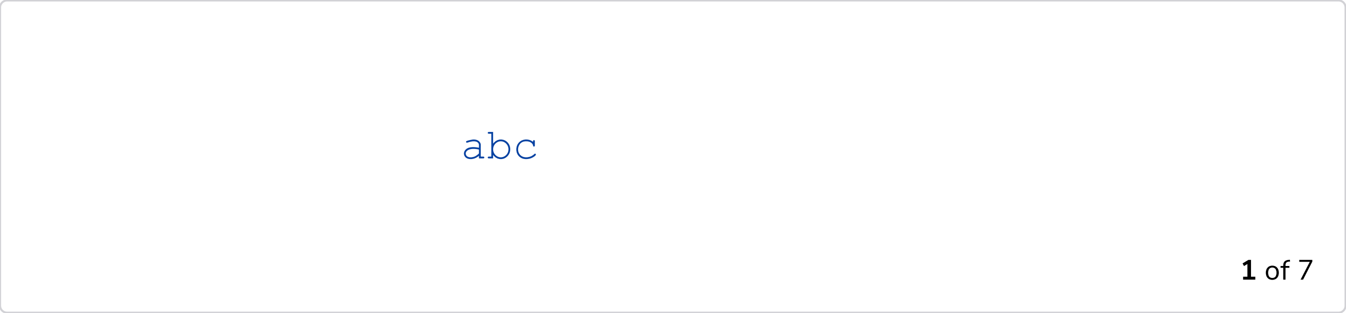
- Use `len(str)` to calculate the length of string `str`
- Concatenate value at a certain position in the string using the concatenation operation

Given a string `'str'`, use the following piece of code to transform the string

```
str = str[:position] + character_to_insert + str[position:]
```

The character needs to be inserted where the position is in the code.

Have a look at the following illustration to get an insight on how to update the length of a string using concatenation operation.



```
abc
```

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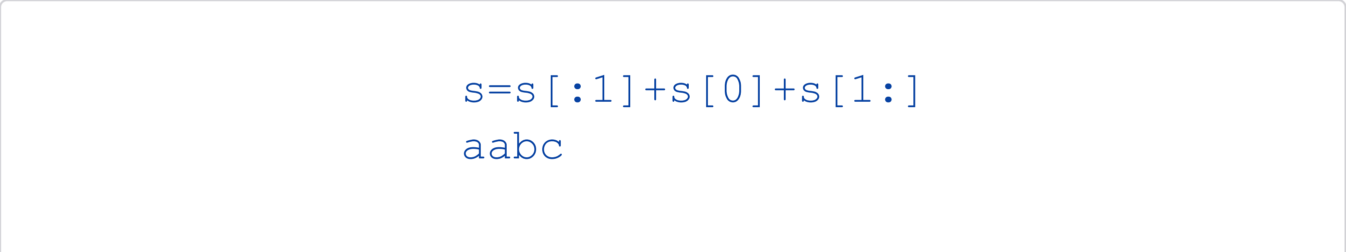

```
s=s[:1]+s[0]+s[1:]
aabc
```

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```
s=s[:1]+s[0]+s[1:]
aaabc
```

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```
s=s[:3]+s[3]+s[3:]
aaabb
```

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```
s=s[:3]+s[3]+s[3:]
aaabbbc
```

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```
s=s[:6]+s[6]+s[6:]
aaabbbcc
```

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```
s=s[:6]+s[6]+s[6:]
aaabbbccc
```

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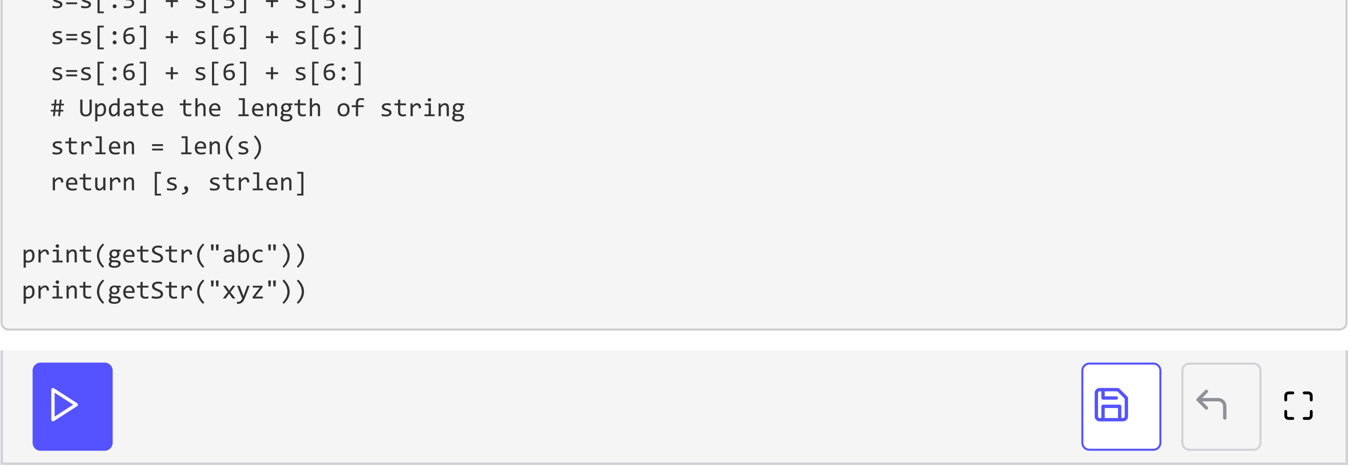
The following python code shows how to transform the string.

```
def getStr(s):
  s=s[:1] + s[0] + s[1:]# Transform the string
  s=s[:1] + s[0] + s[1:]
  s=s[:3] + s[3] + s[3:]
  s=s[:3] + s[3] + s[3:]
```



```
  s=s[:3] + s[3] + s[3:]
  s=s[:6] + s[6] + s[6:]
  s=s[:6] + s[6] + s[6:]
  # Update the length of string
  strlen = len(s)
  return [s, strlen]

print(getStr("abc"))
print(getStr("xyz"))
```

Let’s solve another problem using strings.