

Exercises

Try these exercises to test your knowledge of strings!

Q1. Create a string named **abc**, which contains the characters "My cat's name is Fluffy".

In [1]:

```
abc = "My cat's name is Fluffy"
```

Q2. Ask the computer to print **abc**.

In [2]:

```
print(abc)
```

My cat's name is Fluffy

Q3. Convert **abc** to capitals, and print the result.

In [21]:

```
print(abc.upper())
```

MY CAT'S NAME IS FLUFFY

Q4. Print the length of **abc**.

In [4]:

```
print(len(abc))
```

23

Q5. Get the character in position 5 in the string **abc**.

In [5]:

```
print(abc[5])
```

t

Q6. Find the first character in the string **abc**. (Remember: the first character is not the same as the character in position 1!)

In [6]:

```
print(abc[0])
```

M

Q7. Ask the computer how many times the character "f" appears in **abc**.

In [7]:

```
print(abc.count("f"))
```

2

Q8. Ask the computer how many times the character "F" appears in **abc**.

In [8]:

```
print(abc.count("F"))
```

1

Q9. Print the number of times the string "cat's" appears in **abc**.

In [9]:

```
print(abc.count("cat's"))
```

1

Q10. Create a new string called **name**, by replacing the string "Fluffy" with "Ginger" in **abc**.
Print **name**.

In [10]:

```
name = abc.replace("Fluffy", "Ginger")  
print(name)
```

My cat's name is Ginger

Let's try something a bit more exciting! This is an excerpt from *Harry Potter and the Prisoner of Azkaban*:

Harry sat down between Dudley and Uncle Vernon, a large, beefy man with very little neck and a lot of moustache. Far from wishing Harry a happy birthday, none of the Dursleys made any sign that they had noticed Harry enter the room, but Harry was far too used to this to care. He helped himself to a piece of toast and then looked up at the reporter on the television, who was halfway through a report on an escaped convict.

Q11. Create a string with this text in it, and call it **harry**. (Hint. It may help to copy and paste!)

In [11]:

```
harry = "Harry sat down between Dudley and Uncle Vernon, a large, beefy man with very l  
ittle neck and a lot of moustache. Far from wishing Harry a happy birthday, none of the  
Dursleys made any sign that they had noticed Harry enter the room, but Harry was far to  
o used to this to care. He helped himself to a piece of toast and then looked up at the  
reporter on the television, who was halfway through a report on an escaped convict. "
```

Q12. Print **harry**.

In [12]:

```
print(harry)
```

Harry sat down between Dudley and Uncle Vernon, a large, beefy man with very little neck and a lot of moustache. Far from wishing Harry a happy birthday, none of the Dursleys made any sign that they had noticed Harry enter the room, but Harry was far too used to this to care. He helped himself to a piece of toast and then looked up at the reporter on the television, who was halfway through a report on an escaped convict.

Q13. Find the length of the string **harry**.

In [18]:

```
len(harry)
```

Out[18]:

425

Q14. Print the character in position 100, in **harry**.

In [19]:

```
print(harry[100])
```

f

Q15. Convert **harry** to lowercase, and call this new string **harry_lower**.
Print **harry_lower**.

In [20]:

```
harry_lower = harry.lower()  
print(harry_lower)
```

harry sat down between dudley and uncle verson, a large, beefy man with very little neck and a lot of moustache. far from wishing harry a happy birthday, none of the dursleys made any sign that they had noticed harry enter the room, but harry was far too used to this to care. he helped himself to a piece of toast and then looked up at the reporter on the television, who was halfway through a report on an escaped convict.

Q16. Print how many times each of the vowels appear in **harry_lower**.

In [15]:

```
print(harry_lower.count("a"))
print(harry_lower.count("e"))
print(harry_lower.count("i"))
print(harry_lower.count("o"))
print(harry_lower.count("u"))
```

33
41
13
28
8

Q17. In the string **harry**, replace the word 'Harry' with 'Potter'.
Print the result.

In [23]:

```
print(harry.replace("Harry", "Potter"))
```

Potter sat down between Dudley and Uncle Vernon, a large, beefy man with very little neck and a lot of moustache. Far from wishing Potter a happy birthday, none of the Dursleys made any sign that they had noticed Potter enter the room, but Potter was far too used to this to care. He helped himself to a piece of toast and then looked up at the reporter on the television, who was halfway through a report on an escaped convict.