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Day 6 RPA Master Bootcamp

String Manipulation and String Slicing

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Get item on the basis of index

```
word = "RPA Mastery Bootcamp"
print("The word is:", word)
letter = word[0]
print("The letter is:", letter)
```

The length of the string

```
word = "RPA Mastery Bootcamp"
print("The word is:", word)
word_len = len(word)
print("The length is:", word_len)
```

Find a Character in a String in Python

```
word = "RPA Mastery Bootcamp"
print("The string is:", word)
character = "s"
print("The character is:", character)
position = word.find(character)
print("The position of the character in the string is:", position)
```

Find Frequency of a Character in a String in Python

```
word = "rpa mastery bootcamp"
print("The string is:", word)
character = "a"
```

```
print("The character is:", character)
position = word.count(character)
print("The frequency of the character in the string is:", position)
```

```
input_string = "rpa mastery bootcamp"
character_to_find = "a"
count = 0
for c in input_string:
    if c == character_to_find:
        count += 1

print(f"The character '{character_to_find}' appears {count} times in the
string.")
```

Count the Number of Spaces in a String in Python

```
input_string = "rpa mastery bootcamp"

print("The string is:", input_string)
character = " "
position = input_string.count(character)
print("The number of spaces in the string is:", position)
```

```
input_string = "Hello, World! How are you?"
spaces_count = 0
for char in input_string:
    if char == ' ':
        spaces_count += 1


print(f"The number of spaces in the string is: {spaces_count}")
```

String Slicing in Python

```
word = "rpa master bootcamp"
# get one char of the word
print(word[0])
# get one char of the word (same as above)
print(word[0:1])
# get the first three char
print(word[0:3])
# get the first three char
print(word[:3])
# get the last three char
print(word[-3:])
# get all but the three first char
print(word[3:])
# get all but the three last character
print(word[:-3])
```

Split a String in Python

```
word = "rpa master bootcamp"
split_data = word.split(" ")
print(split_data)
```

Check if a String Starts with or Ends with a Character in Python

```
input_string = "Hello, World!"
starts_with_hello = input_string.startswith("Hello")
print(starts_with_hello)  #

# Check if a string ends with a specific character or substring
ends_with_exclamation = input_string.endswith("!")
print(ends_with_exclamation)
```

Repeat Strings Multiple Times in a String in Python

```
string_to_repeat = "rpa, "
repeated_string = string_to_repeat * 3
print(repeated_string)
```

Replace Substring in a String in Python

```
original_string = "Hello, World!"
old_substring = "World"
new_substring = "Universe"
modified_string = original_string.replace(old_substring, new_substring)
print(modified_string)
```

Changing Upper- and Lower-Case Strings in Python

```
original_string = "RPA master bootcamp"

# Convert to upper-case
upper_case_string = original_string.upper()
print(upper_case_string)  # Output: "HELLO, WORLD!"

# Convert to lower-case
lower_case_string = original_string.lower()
print(lower_case_string)
```

Reverse a String in Python

```
original_string = "RPA master bootcamp"
print(original_string[::-1])
```

Strip a String in Python

```
original_string = "    RPA master bootcamp     "
stripped_string = original_string.strip()
print(stripped_string)
```

lstrip

rstrip

```
original_string = "    RPA master bootcamp     "
left_stripped_string = original_string.lstrip()
print(left_stripped_string)

# Right (Trailing) stripping
right_stripped_string = original_string.rstrip()
print(right_stripped_string)
```

Practice

```
# Get item on the basis of index
# The length of the string

# Find a Character in a String in Python
# Find Frequency of a Character in a String in
Python

# Count the Number of Spaces in a String in Python

# String Slicing in Python


# Split a String in Python
# Check if a String Starts (with or Ends (with a
Character in Python

# Repeat Strings Multiple Times in a String in
Python
# Replace Substring in a String in Python

# Changing Upper and Lo(wer Case Strings in Python
```

```
# Reverse a String in Python
# Strip a String in Python

# Concatenate Strings in Python
# Check Properties of a String in Python

rpa_botcamp_name = "rpa mastery bootcamp"

output = rpa_botcamp_name[0]
print("The value on the 0 index is ", output)

string_len = len(rpa_botcamp_name)

print(" the length of the string is ", string_len)

character_to_find = "a"

postiton = rpa_botcamp_name.find(character_to_find)
print("the position of character is the string is
", postiton)

count_of_char =
rpa_botcamp_name.count(character_to_find)
print("Count of the character is ", count_of_char)

count = 0
for i in rpa_botcamp_name:
    print(i)
    if i == "a":
        count += 1
print("Count of  a is ", count)

print(rpa_botcamp_name[0:7])
print(rpa_botcamp_name[0:7:2])
# print(rpa_botcamp_name[0:])
# print(rpa_botcamp_name[:-3])
```

```
# split string


rpa_botcamp_name = "rpa  mastery  bootcamp"
split_string = rpa_botcamp_name.split(" ")
print(rpa_botcamp_name)
print("splited string is ", split_string)
print(type(rpa_botcamp_name))
print(type(split_string))

print(split_string[-1])

rpa_botcamp_name = rpa_botcamp_name.replace(" ",
"")
print(rpa_botcamp_name)

if "rpa" in rpa_botcamp_name:
    print("substring found")
else:
    print("substring not found")
if rpa_botcamp_name.__contains__("rpa"):
    print("string contains substring")

# reverse order
print(rpa_botcamp_name[::-1])

# strip remove start and end spaces
rpa_botcamp_name = " rpa  mastery  bootcamp "
# print(rpa_botcamp_name.strip())
print(rpa_botcamp_name.rstrip())
print(rpa_botcamp_name.lstrip())
```