

String Practice Questions (10 Problems)

1. Extract the first 3 characters of: `text = 'Python'`
2. Convert to lowercase: `name = 'hello WORLD'`
3. Remove extra spaces: `msg = ' Welcome to Python '`
4. Find the length of: `word = 'Programming'`
5. Split based on comma: `text = 'apple,banana,grape'`
6. Replace 'Java' with 'Python' in: `text = 'I love Java'`
7. Extract 'Science' from: `line = 'Data Science'`
8. Get the last character of: `text = 'Python'`
9. Check if 'Python' is present in: `sentence = 'Learning Python is fun'`
10. Join list into a sentence: `words = ['Python', 'is', 'easy']`

1. Extract the first 3 characters

Answer: Pyt

Python Code:

```
text = 'Python'  
print(text[:3])
```

Output:

```
Pyt
```

2. Convert to lowercase

Answer: hello world

Python Code:

```
name = 'hello WORLD'  
print(name.lower())
```

Output:

```
hello world
```

3. Remove extra spaces

Answer: **Welcome to Python**

Python Code:

```
msg = ' Welcome to Python '
print(msg.strip())
```

Output:

```
Welcome to Python
```

4. Find the length of

Answer: **11**

Python Code:

```
word = 'Programming'
print(len(word))
```

Output:

```
11
```

5. Split based on comma

Answer: ['apple', 'banana', 'grape']

Python Code:

```
text = 'apple,banana,grape'  
print(text.split(','))
```

Output:

```
['apple', 'banana', 'grape']
```

6. Replace 'Java' with 'Python' in

Answer: I love Python

Python Code:

```
text = 'I love Java'  
print(text.replace('Java',  
'Python'))
```

Output:

```
I love Python
```

7. Extract 'Science' from

Answer: Science

Python Code:

```
line = 'Data Science'  
print(line.split()[1])
```

Output:

```
Science
```

8. Get the last character of

Answer: n

Python Code:

```
text = 'Python'  
print(text[-1])
```

Output:

```
n
```

9. Check if 'Python' is present in

Answer: **True**

Python Code:

```
sentence = 'Learning Python is  
fun'  
print('Python' in sentence)
```

Output:

```
True
```

10. Join list into a sentence

Answer: **Python is easy**

Python Code:

```
words = ['Python', 'is', 'easy']  
print(' '.join(words))
```

Output:

```
Python is easy
```

Medium to Hard String Practice Questions (10)

1. Extract 'Programming' from: `text = 'PythonProgramming'` using slicing only.
2. Count how many times 'Hello' appears in: `s = 'Hello, Python, Hello, World'`.
3. Reverse the string without using `reverse()`: `word = 'Development'`.
4. Replace 'awesome' with 'powerful' only if 'Python' exists in: `sentence = 'Python is awesome'`.
5. Count occurrences of 'aaa' (including overlapping) in: `text = 'aaabbbcccaa'`.
6. Extract username and domain from: `email = 'username@example.com'`.
7. Extract the numeric value from: `line = 'The price is 1500 rupees'`.
8. Split by '-' and rejoin with spaces: `words = 'python-is-simple-and-powerful'`.
9. Remove numbers and keep only letters from: `text = 'Hello123World45Python'`.
10. Find the first character that appears more than once in: `text = 'Mississippi'`.

```
text = 'PythonProgramming'  
extracted = text[6:]  
print(extracted)
```

Answer:

Programming

```
s = 'Hello, Python, Hello, World'  
count = s.count('Hello')  
print(count)
```

Answer:

2

```
word = 'Development'  
reversed_word = word[::-1]  
print(reversed_word)
```

Answer:

tnempo leved

```
sentence = 'Python is awesome'  
if 'Python' in sentence:  
    new_sentence =  
        sentence.replace('awesome', 'powerful')  
else:  
    new_sentence = sentence  
print(new_sentence)
```

Answer:

Python is powerful

```
import re
text = 'aaabbbcccaaa'
count = len(re.findall('(?=aaa)', text))
print(count)
```

Answer:

2

```
email = 'username@example.com'  
username, domain = email.split('@')  
print(f"Username: {username}, Domain:  
{domain}")
```

Answer:

**Username: username, Domain:
example.com**

```
import re  
line = 'The price is 1500 rupees'  
match = re.search(r'\d+', line)  
if match:  
    value = match.group(0)  
else:  
    value = "Not found"  
print(value)
```

Answer:

1500

```
words = 'python-is-simple-and-powerful'  
split_words = words.split('-')  
rejoined_words = ' '.join(split_words)  
print(rejoined_words)
```

Answer:

python is simple and powerful

```
import re  
  
text = 'Hello123World45Python'  
letters_only = re.sub(r'\d+', "", text)  
print(letters_only)
```

Answer:

HelloWorldPython

```
text = 'Mississippi'  
counts = {}  
found_char = ""  
for char in text:  
    if char in counts:  
        found_char = char  
        break  
    counts[char] = 1  
print(found_char)
```

Answer:

s