STRINGS(TASK-2)

1. Extract the first 3 characters of: text = 'Python'

```
Text = 'PYTHON'
print(Text[:3])
print(Text[0:3])
```

```
PYT
PYT
```

2. Convert to lowercase: name = 'hello WORLD'

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

```
hello world
```

3. Remove extra spaces: msg = ' Welcome to Python '

```
text = 'welcome to python'
print(text.replace(" ",""))
```

```
welcometopython
```

4. Find the length of: word = 'Programming'

```
Text ='programming'
print(len(Text))
```

```
11
```

5. Split based on comma: text = 'apple,banana,grape'

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

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

6. Replace 'Java' with 'Python' in: text = 'I love Java'

```
Text = 'I LOVE JAVA'
print(Text.replace("JAVA","PYTHON"))
```

```
I LOVE PYTHON
```

7. Extract 'Science' from: line = 'Data Science'

```
Text ='Data Science'
print(Text[5:12])
```

```
Science
```

8. Get the last character of: text = 'Python'

```
Text='Python'
print(Text[5])
print(Text[-1])
```

```
n
n
```

9. Check if 'Python' is present in: sentence = 'Learning Python is fun'

```
Text='Leraning python is Fun'
print('python'in Text)
```

```
True
```

10. Join list into a sentence: words = ['Python', 'is', 'easy']

```
Words = ['Python','is','easy']
print("-".join(Words))
```

```
Python-is-easy
```

1. Extract 'Programming' from: text = 'PythonProgramming' using slicing only.

```
Text = 'pythonprogramming'
print(Text[6:17])
```

```
programming
```

2. Count how many times 'Hello' appears in: s = 'Hello, Python, Hello, World'.

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

```
2
```

3. Reverse the string without using reverse(): word = 'Development'.

```
Word = "DEVELOPMENT"
print(Word[::-1])
```

```
TNEMPOLEVED
```

4. Replace 'awesome' with 'powerful' only if 'Python' exists in: sentence = 'Python is awesome'.

```
sentence='Python is Awesome'
if('Python' in sentence):
  print(sentence.replace('Awesome','Powerful'))
```

```
Python is Powerful
```

5. Count occurrences of 'aaa' (including overlapping) in: text = 'aaabbbcccaaa'.

```
text='aaabbbcccaaa'
print(text.count('aaa'))
```

```
2
```

6. Extract username and domain from: email = 'username@example.com'.

```
email='username@gmail.com'
username,domain=email.split('@')
print(username)
print(domain)
```

```
username
gmail.com
```

7. Extract the numeric value from: line = 'The price is 1500 rupees'.

```
line='The price is 1500 rupees'
print(line[13:17])
```

```
1500
```

8. Split by '-' and rejoin with spaces: words = 'python-is-simple-and-powerful'.

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

```
python is simple and powerful
```

10. Find the first character that appears more than once in: text = 'Mississippi'.

```
text = "Mississippi"
seen = set()

for char in text:
    if char in seen:
        print(char)
        break
    seen.add(char)
```

```
s
```