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```
In [ ]: String = > String is sequence of characters
         1- String is immutable
         2- Indexed start with zero.
         3- It can be loop through
         Charat
 In [2]: # Loop through
         for i in "john":
             print(i)
        0
        h
 In [ ]: # Characteristics
         1- String literals : single quote , double quote and triple quotes
         2- support unicode charaters
         3- string is usages "regex"
         4- It can also use f-string formatting
In [10]: # string creation
         name = "John"
         message= 'hello world'
         mutli_line = """ This is a
                         multi string lines"""
         # string operations
         first_name = "amit"
         last_name = "Jadhav"
         full name = first name + " " + last name
         print(full_name)
         repeat_names = "Helllo " * 5
         print(repeat_names)
        amit Jadhav
        Helllo Helllo Helllo Helllo
In [23]: # string indexing and slicing
         text = "Python Programming"
         # indexing is always start with zero
         print(text[0])
         print(text[17])
         print(text[-1])
         print(text[-2])
         print(text[-8])
```

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```
## slciing
         print(text[0:5])
         print(text[2:5])
         print(text[:-1])
         print(text[-1:])
         # palindrome
         text[::-1]
        Ρ
        g
        g
        n
        Pytho
        tho
        Python Programmin
Out[23]: 'gnimmargorP nohtyP'
In [44]: # string methods
         t = "python is awesome language"
         print(f"length : {len(t)}")
         print(f"upper : {t.upper()}")
         print(f"lower : {t.lower()}")
         print(f"capitalize : {t.capitalize()}")
         print(f"title : {t.title()}")
         print(f"split : {t.split(" ")}")
         print(f"max : {max(t)}")
         print(f"startwith : {t.startswith("py")}")
         print(f"startwith : {t.find("is")}")
        length: 26
        upper : PYTHON IS AWESOME LANGUAGE
        lower: python is awesome language
        capitalize : Python is awesome language
        title : Python Is Awesome Language
        split : ['python', 'is', 'awesome', 'language']
        max : y
        startwith : True
        startwith: 7
 In [ ]:
```