Task 2 Practice session

1. Single line comments

2. String Concatenation

```
In [12]: Name[11:25]
Out[12]: 'Raviteja Beri'

In [14]: Name[20:25]
Out[14]: 'Beri'

In [28]: Name1 = "My name is Raviteja "
    Name2 = "currently I have enrolled into DSAIML Course."
    Name3 = "and "
        print(Name1 + Name3 + Name2)

        My name is Raviteja and currently I have enrolled into DSAIML Course.

In [36]: len(Name1 + Name2 + Name3)
Out[36]: 69
```

```
In [38]: len(Name2)
Out[38]: 45
In [52]: Name = "Raviteja"
Name
Out[52]: 'Raviteja'
In [58]: len(Name)
Out[58]: 8
```

3. Unpacking Characters

```
In [66]:
          a,b,c,d,e,f,g,h = Name
          print(a)
          print(b)
          print(c)
          print(d)
          print(e)
          print(f)
          print(g)
          print(h)
        R
         а
        ٧
        i
        t
        e
        j
```

4. Forward Indexing & Backward Indexing

```
In [84]: name[6]
Out[84]: 'j'
```

5. Python Slicing & Skipping Character

```
In [88]:
           Name="Raviteja"
           Name
Out[88]:
            'Raviteja'
In [90]:
           Name[4:8]
Out[90]:
            'teja'
 In [92]:
           Name[0:4]
Out[92]:
            'Ravi'
 In [97]:
           Name[4:8:2]
Out[97]:
In [107...
           Name[0:8:2]
Out[107...
            'Rvtj'
In [109...
           Name
Out[109...
            'Raviteja'
In [115...
           Name[2:8:1]
Out[115...
           'viteja'
           Name[4:8] + Name[2:4]
In [117...
Out[117...
            'tejavi'
```

6. Escape Sequence

```
In [134... print('My name is Raviteja and currently I have enrolled into DSAIML Course.\nDo

My name is Raviteja and currently I have enrolled into DSAIML Course.

Do You ?

In [142... print('The Course contents are Python\tSQL\tSattistics\tDeepLearning\tMachineLea

The Course contents are Python SQL Sattistics DeepLearning MachineLea

arning LLMs GenAI AgenticAI

It was Wonderful Course

Enroll now, Dont neglect it!
```

7. String Methods

1. Capitalize() = Converts the first character the string to Capital Letter.

```
S1="My name is Raviteja and currently I have enrolled into DSAIML Course."
In [146...
           print(S1.capitalize())
         My name is raviteja and currently i have enrolled into dsaiml course.
             2. Count() = returns occurrences of substring in string, count(substring, start=.., end=..)
In [150...
           print(S1.count("i"))
         3
In [152...
           print(S1.count("a"))
         5
             3. endswith() = Checks if a string ends with a specified ending
           S1= "Full stack DataScience and AIML with python and 6months duration"
In [182...
           print(S1.endswith("on"))
         True
In [157...
           print(S1.endswith("ion"))
         True
In [159...
           print(S1.endswith("tion"))
In [161...
           print(S1.endswith("htion"))
         False
             4. expandtabs() = Replaces tab character with spaces, default tab size is 8. It takes tab
               size argument.
           Text="My\tname\tis\traviteja"
In [185...
           print(Text.expandtabs())
                  name
                           is
                                   raviteja
In [174...
          print(Text.expandtabs(5))
               name is
                          raviteja
           print(Text.expandtabs(0))
In [176...
         Mynameisraviteja
          print(Text.expandtabs(1))
In [178...
         My name is raviteja
```

5. find(): Returns the index of first occurrence of substring

```
In [190...
          t1= "Full stack DataScience and AIML with python and 6months duration"
          print(t1.find("k"))
         9
          print(t1.find("on"))
In [192...
         41
            6. format()= formats string into nicer output.
In [201...
          Name="Raviteja Beri"
          Education="B.Tech Grad in the ECE stream"
          State="Telangana"
          Country="India"
          sentence= 'I am {} and I am a {}. I live in the state {}, {}.'.format(Name, Educ
          print(sentence)
         I am Raviteja Beri and I am a B.Tech Grad in the ECE stream. I live in the state
         Telangana, India.
In [205...
          radius = 10
          pi = 3.14
          area = pi
          result = 'The area of circle with {} is {}'.format(radius, area)
          print(result)
         The area of circle with 10 is 3.14
            7. index()= Returns the index of substring
In [217...
          N1= 'My name is Raviteja'
          print(N1.index('i'))
         8
            8. isalnum() = Checks alphanumeric character
          N1='MynameisRavitejaandmyageistwentythree'
In [228...
          print(N1.isalnum())
         True
In [230...
          N1='My name is Raviteja and my age is twenty three'
          print(N1.isalnum())
         False
          N1='My name is Raviteja and my age is 23'
In [232...
          print(N1.isalnum()) # spaces are not recognized neither alphabets or numeric val
         False
```

9. isalpha() = Checks if all characters are alphabets

```
P1= 'My name is Raviteja'
In [241...
           print(P1.isalpha())
         False
          P1= 'Raviteja'
In [243...
           print(P1.isalpha())
          True
          P1= '22248'
In [245...
           print(P1.isalpha())
         False
            10. isdecimal = Checks Decimal Characters
In [248...
          N1='100'
           print(N1.isdecimal())
          True
          N1='100.01'
In [250...
           print(N1.isdecimal())
         False
            11. isdigit()= Checks Digit Characters
In [253...
          N1='100'
           print(N1.isdigit())
          True
          N1='Hundred'
In [255...
           print(N1.isdigit())
         False
            12. isidentifier() = Checks for valid identifier means it check if a string is a valid variable
               name
          N2='23Raviteja'
In [258...
           print(N2.isidentifier())
         False
In [260...
           N2='Raviteja'
           print(N2.isidentifier())
         True
In [262...
          N2='_Raviteja_'
           print(N2.isidentifier())
         True
          N2='_23_Raviteja_'
In [264...
           print(N2.isidentifier())
```

```
True
```

```
In [268... N2='-23Raviteja'
    print(N2.isidentifier())
False
```

```
In [272... N2='$23Raviteja'
print(N2.isidentifier())
```

False

13. [a] islower() = Checks if all alphabets in a string are lowercase. [b] isupper() = returns if all characters are uppercase characters.

```
In [275... N3='My name is Raviteja'
print(N3.islower())
```

False

```
In [277... N3='my name is raviteja'
print(N3.islower())
```

True

```
In [280... N3='My name is Raviteja'
print(N3.isupper())
```

False

```
In [282... N3='MY NAME IS RAVITEJA'
print(N3.isupper())
```

True

14. isnumeric() = Checks numeric characters

```
In [288... num='25'
print(num.isnumeric())
```

True

```
In [290... num='twenty'
    print(num.isnumeric())
```

False

15. join() = Returns a concatenated string.

```
In [319...
name=['Python','SQL','Statistics','ML','DL','GEN AI','AGENTIC AI']
output=', #'.join(name)
print(output) # to get the hash symbol at python use this ['#'+', #'.join(name)]
```

Python, #SQL, #Statistics, #ML, #DL, #GEN AI, #AGENTIC AI

16. strip()= Removes both leading and trailing characters.

```
name='My name is Raviteja'
In [330...
           print(name.strip('a'))
         My name is Ravitej
In [332...
           name='
                     My name is Raviteja
           print(name.strip())
         My name is Raviteja
In [334...
          name='wwwwwWy name is Ravitejawwwwww'
           print(name.strip('w'))
         My name is Raviteja
          name='wwwwwWy name is Ravitejawwwwww'
In [338...
           print(name.lstrip('w')) # removes values from left side
         My name is Ravitejawwwwww
          name='wwwwwMy name is Ravitejawwwwww'
In [340...
           print(name.rstrip('w')) # removes values from right side
         wwwwwMy name is Raviteja
            17. replace()= Replaces substring inside with other.
In [343...
          name='My name is Raviteja'
           print(name.replace('Raviteja','Teja'))
         My name is Teja
In [345...
          name='My roll number is 410'
           print(name.replace('410','406'))
         My roll number is 406
          print(name.replace('roll number', 'college ID'))
In [347...
         My college ID is 410
            18. split()= Splits String from Left into each word
In [350...
          name='My name is Raviteja'
           print(name.split())
         ['My', 'name', 'is', 'Raviteja']
           19. title() = Returns a Title Cased String
In [353...
           name='My name is Raviteja'
           print(name.title()) # it converts lowercase letter of each word to uppercase
         My Name Is Raviteja
           20. swapcase() = Checks if String Starts with the Specified String
```

file:///C:/Users/HP/Downloads/String Practice[28-02-25] .html

```
In [356...
          name='Raviteja Beri'
           print(name.swapcase())
         rAVITEJA bERI
           name='raviteja beri'
In [358...
           print(name.swapcase())
         RAVITEJA BERI
           name='raviTEJA beri'
In [360...
           print(name.swapcase())
         RAVIteja BERI
            21. startswith() = Checks if String Starts with the Specified String.
In [363...
           name='Raviteja Beri'
           print(name.startswith('Ravi'))
         True
           name='Raviteja Beri'
In [365...
           print(name.startswith('teja'))
         False
In [367...
          name='Raviteja Beri'
           print(name.startswith('Ramu'))
```

False

The End