Strings Assignment Solutions

1. I want to print the below string as it is. How do I do that?

“Apples are better than \n Oranges”

In [1]:
```
a="Apples are better than \n Oranges"
```

In [2]:
```
print(repr(a))
```

'Apples are better than \n Oranges'

2. string_ex = “I love python because it is so easy to use it and also it is used by many other IT companies”

I want you to split the above string on the separator “it”. How will you do it?

In [3]:
```
string_ex = "I love python because it is so easy to use it and also it is used by many other IT companies"
```

In [4]:
```
string_ex.split("it")
```

Out[4]:

['I love python because ',
' is so easy to use ',
' and also ',
' is used by many other IT companies']

3.str_ex = “I Love Pyton” How do you swap the cases of letters in the above input string?

In [5]:
```
str_ex = "I Love Pyton"
print(str_ex.swapcase())
```

i lOVE pYTON

4. str_input = “Hey how are you doing. I am doing great”

Get the first 10 characters and the last 10 characters of the above the string and join them with a “_”

In [7]:
```
str_input="Hey how are you doing. I am doing great"
```

In [8]:
```
print(str_input[:10]+"_"+str_input[-10:])
```

Hey how ar_oing great

5. string1 = “Hotelspace” string2=”Facilities”

I want you to swap the first three letters and last three letters of both the strings and print the output by separating them with a “@”

In [9]:

```
string1="Hotelspace"
string2="Facilities"
m=string1[-3:]+string1[3:-3]+string1[:3]
n=string2[-3:]+string2[3:-3]+string2[:3]
m+"@"+n
```

Out[9]:

'aceelspHot@iesilitFac'

6. strr = 'Hello World' How do you extract the string ‘Worl’ from the above string using negative index?

In [10]:

```
strr='Hello World'
strr[-5:-1]
```

Out[10]:

'Worl'

7. Reverse the string “

5+6*3−45

5+6*3−45”**. The output should be “**

45−3*6+5

45−3*6+5”.

In [11]:

```
import re
string1='5+6*3-45'
list1=re.findall('[+-/*]|\d+',string1)
output_string=list1[::-1]
''.join(output_string)
```

Out[11]:

'45-3*6+5'

8.

str_s = “India is a great country with a lot of heritage”

str_x = “South Africa is a great country with a lot of freedom”

I want you to remove the common words appearing in the above strings and display the left-over words as one single string.

In [15]:

```
str_s="India is a great country with a lot of heritage"
str_x="South Africa is a great country with a lot of freedom"
str1 = str_s.split()
str2 = str_x.split()
str3 = list(str1)

for word in str1:
    if word in str2:
        str2.remove(word)
        str3.remove(word)

print(" ".join(str3 + str2))
```

India heritage South Africa freedom

9. variable1=”This is a test to check the unique characters in the string”

I want you to identify all the unique characters in the above string and also mention the number of times these unique characters are repeated in the above string.

In [16]:

```
from collections import Counter
```

In [17]:

```
variable1="This is a test to check the unique characters in the string"
Counter(variable1.lower())
```

Out[17]:

```
Counter({' ': 11,
         'a': 3,
         'c': 4,
         'e': 6,
         'g': 1,
         'h': 5,
         'i': 5,
         'k': 1,
         'n': 3,
         'o': 1,
         'q': 1,
         'r': 3,
         's': 5,
```

```
      't': 8,
      'u': 2})
```

10. var3 = “abcdefgh”

I want you to transform the above string to “a2c4e8g10”

In [18]:

```
var3="abcdefgh"
list1=list(var3)
list1[1]=str(2)
list1[3]=str(4)
list1[5]=str(8)
list1[7]=str(10)
''.join(list1)
```

Out[18]:

'a2c4e8g10'