

PYTHON STRING

Q1. How can we store a single quote (') as a string in a variable?

```
In [2]: s = '''  
s
```

```
Out[2]: '''
```

Q2. Refer the below variable:

```
x = 'a'
```

Here, is x a character type or string type variable? Support your answer with an explanation.

```
In [4]: x = 'a'  
type(x) #x is str type because a is enclosed within single quotes
```

```
Out[4]: str
```

Q3. Apply the following functions on this variable: 'Welcome to Python foundation course'

1. find()

2. count()

3. len()

4. Concatenation

Note: You can use your choice of parameters. But make sure it's correct

```
In [16]: s = 'Welcome to Python foundation course'
```

```
In [17]: s.find('Python')
```

```
Out[17]: 11
```

```
In [18]: s.count('Welcome')
```

```
Out[18]: 1
```

```
In [19]: len(s)
```

```
Out[19]: 35
```

```
In [20]: t = 'Python is easy to learn'
```

```
In [26]: #Concatenation  
s + ' ' + t
```

```
Out[26]: 'Welcome to Python foundation course Python is easy to learn'
```

Q4. For the variable: word = 'PanaJi@12256'

Calculate the following

- a) Total Number of alphabets in lowercase
- b) Total Number of alphabets in uppercase
- c) Total number of numerical in string

```
In [28]: word = 'PanaJi@12256'
```

```
In [41]: #a) Total Number of alphabets in lowercase
```

```
j = 0
for i in word:
    if i.islower():
        j = j + 1
print(j)
```

4

```
In [53]: #b) Total Number of alphabets in uppercase
```

```
j = 0
for i in word:
    if i.isupper():
        j = j + 1
print(j)
```

2

```
In [93]: #c) Total number of numerical in string
```

```
j = 0
i = 0
for k in word:
    if k.isalnum():
        i = i + 1
        if k.isalpha():
            j = j + 1
print('Total Number of numerical in a string are:', i - j)
```

Total Number of numerical in a string are: 5

Q5. Write a code to store a numerical value inside a variable then convert it into string.

```
In [62]: a = 12
         type(a)
```

```
Out[62]: int
```

In [63]: `str(a)`

Out[63]: '12'