

# 1. Guess output of each slice:

```
In [3]: s="Python is Object Oriented"
print(s[-1])
print(s[::-1])
print(s[:-1])
print(s[:1])
print(s[1:1])
print(s[4:10])
```

```
d
detneirO tcejb0 si nohtyP
Python is Object Oriente
```

```
on is
```

# 2. What error do you see for following statements:

```
In [5]: s= ' '
print(s[1])
#SyntaxError: invalid character in identifier
```

```
File "<ipython-input-5-1f67b6127610>", line 1
```

```
s= ' '
      ^
```

```
SyntaxError: invalid character in identifier
```

# 3. Do you get any error for the following code, if not give the output:

```
In [6]: S='Gaurav'
print(s[1])
#SyntaxError: invalid character in identifier
```

```
File "<ipython-input-6-cfc813e1d8cf>", line 1
```

```
S='Gaurav'
      ^
```

```
SyntaxError: invalid character in identifier
```

# 4. Find output of the following:

```
In [8]: #a
s='a b cd'
print(len(s))
print(s[:2])
print(len(s[:2]))
```

```
6
abc
3
```

```
In [8]: #b
s='a#b#c#d#'
```

```
print(s)
print(s.split())
print(s.split('#'))
l=s.split('#')
s='$'.join(l)
print(s)
```

```
a#b#c#d#
['a#b#c#d#']
['a', 'b', 'c', 'd', '']
a$b$c$d$
```

In [12]:

```
#c
S='Gaurav'
S=S[::-2][::-2]
print(S)
```

av

In [13]:

```
#d
print(1>2)
```

False

In [15]:

```
#e
print(4%2, 5%2, 2%5, sep=',')
```

0,1,2

In [20]:

```
#f
s='abcba'
print(s.upper())
print(s.count('A'), end = ' ,')
print(s.count('A', 2,4) , end = ' ,')
print(s.count('a', 2,4) , end = ' ,')
```

```
ABCBA
0 ,0 ,0 ,
```

## 5. WAP to input a string and remove all spaces from it.

In [21]:

```
s=input('enter a string:-')
print(s.strip())
```

```
enter a string:-      Pratiksha
Pratiksha
```

## 6.What does this symbol denote:

[]

In [ ]:

empty list type

## 7.WAP to print all

# methods(functions/operations) available in a string (Hint : dir())

In [23]: `dir(str)`

Out[23]:

```
['_add_',
 '__class__',
 '__contains__',
 '__delattr__',
 '__dir__',
 '__doc__',
 '__eq__',
 '__format__',
 '__ge__',
 '__getattribute__',
 '__getitem__',
 '__getnewargs__',
 '__gt__',
 '__hash__',
 '__init__',
 '__init_subclass__',
 '__iter__',
 '__le__',
 '__len__',
 '__lt__',
 '__mod__',
 '__mul__',
 '__ne__',
 '__new__',
 '__reduce__',
 '__reduce_ex__',
 '__repr__',
 '__rmod__',
 '__rmul__',
 '__setattr__',
 '__sizeof__',
 '__str__',
 '__subclasshook__',
 'capitalize',
 'casefold',
 'center',
 'count',
 'encode',
 'endswith',
 'expandtabs',
 'find',
 'format',
 'format_map',
 'index',
 'isalnum',
 'isalpha',
 'isascii',
 'isdecimal',
 'isdigit',
 'isidentifier',
 'islower',
 'isnumeric',
 'isprintable',
 'isspace',
 'istitle',
 'isupper',
 'join',
 'ljust',
 'lower',
 'lstrip',
 'maketrans',
```

```
'partition',
'replace',
'rfind',
'rindex',
'rjust',
'rpartition',
'rsplit',
'rstrip',
'split',
'splitlines',
'startswith',
'strip',
'swapcase',
'title',
'translate',
'upper',
'zfill']
```

## 8. Write statement to check if rstrip method is available in the str class.

(Hint : Use the find function or in)

In [10]:

```
str='rstrip'
print(str.find('rstrip'))
```

0

## 9. WAP to store the following patterns in a string variable and then print them:

In [34]:

```
s="*****"
t=" *\\n *\\n *\\n *"
print(s)
print(t)
```

```
*****
*
*
*
*
```

In [59]:

```
t="*\\t*"
print(t)
t1="* * *\\t*"
print(t1)
t2="* * * \\t*"
print(t2)
t3="* * * \\t*"
print(t3)
```

```
* * *
* * *
* * *
* * *
```

In [125...]

```
x=" _____ "
print(x)
x1=" |\\t| "
```

```
print(x1)
x2="  o \t|\n /\ \ \t|"
print(x2)
x3=" /\ \ \t|"
print(x3)
x4=" _____|"
print(x4)
```

```
|
|
| o
|/|\
|/\
|_
```

## 10. WAP to input a string and replace all space with new lines (\n) and print again.

```
In [2]: s=input("enter a string :-")

s1=s.replace(" ", '\n')
print(s1)
```

```
enter a string :-Love on Life
Love
on
Life
```

## 11. WAP to input complete name(first and last name separated by space) and print first and last name separately along with their length in upper case.

```
In [10]: name=input("Enter your full name :- ")
sepr=name.replace(" ", "\n")
print(sepr)
```

```
Enter your full name :- Pratiksha
Pratiksha
```

## 12.WAP to input a string and split it into 2 halves. The string can be of any length

```
In [2]: s=input("Enter a string :- ")
s1=s[0:len(s)//2]
s2=s[len(s)//2:len(s)]
print(s1,s2)
```

```
Enter a string :- String
Str ing
```