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Advanced slicing techniques

```
word = "animals"  
word = [ : 6 ] # [0:6]  
word = [0: ] ## [0:7]
```

String functions

① find length

Code

```
word = "Pen"  
Print(len(word))
```

OutPut

3

② endswith

Code

```
word = "Pen"  
Print(word.endswith("n"))
```

OutPut
True

③ startswith

same as
endswith

...

④ string.count("p") # 1

⑤ string.find("word") # Position no.

⑥ string.replace("word", "Python")
Sabse Pe word honga kha Python hogi

⑦ capitalize

Code

name = "vidhi"

Print(name.capitalize())

Output

Vidhi

just little capital

⑧ upper()

⑨ lower()

⑩ title() etc...

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Escape Sequence Characters

① \n (use for getting new line.)

(code) a = "My name is vidhi\nI am doing B.C.A."

Print (a)

output
my name is vidhi
I am doing B.C.A

② \t (use to give space like tab)

a = "My name is vidhi\tI am doing B.C.A"

Print (a)

output
my name is vidhi I am doing B.C.A

③ \\" (use to give double quotes in output without getting confused between string)

code

a = " My name is \"vidhi\" "

print (a)

output
My name is "vidhi"

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(Ch-3 Practice set)

Q1 Write a python program to display a user entered name followed by good afternoon using input() function

```
name = str(input("your name:"))  
name = input("your name: ")  
print("good Afternoon:", name) / print(f"good Afternoon {name}")  
# output  
your name: Vidhi  
good Afternoon: Vidhi
```

output
your name: Vidhi
good Afternoon: Vidhi

Q2 Write a program to fill in a letter template given below with name and date.

```
letter = "Dear < | name | >,  
you are selected!  
< | Date | > "
```

```
Print(letter.replace("< | name | >", "Vidhi").replace("< | Date | >", "30 Nov. 2025"))
```

output

```
Dear Vidhi  
you are selected  
30 Nov. 2025
```

Q3 Write a program to detect double space in a string

* Sentence = "I am ||| 19 years old"
Print(sentence.find(" "))

output
3

Q4 Replace the double space from problem 3 with single spaces.

* Sentence = "I am 19 years old"
Print(sentence.replace(" ", " "))

output
I am 19 year old

Q5 Write a program to format the following letter using escape sequence characters.

Letter = "dear Vidhi, you are doing great in Python. love you!"

~~Code~~

Letter = "dear vidhi\n\t you are doing great in Python.\n\t love you!"

Print (letter)

output

dear vidhi

you are doing great in Python
love you!

← Mummy ❤️
Today, 8:16 pm



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Ch = 4
lists and tuples

list is a container to store a set of values of any data type

list are mutable not like strings

code
friends = ["Apple", "Orange", V, 24.60, True, "Sonali"]

Print(friends[0]) | Print(friends[0]) = "banana"
output | output

Apple

banana

list methods

friends = ["Apple", "orange", V, 24.6, True,]

friends.append("Vidhi") # list ki end mey vidhi add Hoga.

Print(friends)
output

[Apple, orange, V, 24.6, True, Vidhi]



← Reply

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Methods

Listname. Sort ()
 " " .reverse ()
 " " .insert (position, number)
 " " .pop (position)
 " " .etc

Tuples in Python

its a immutable " ()"

a = (1, 45, 342, 3424, False, "Rohan", "Shivam")
print(type(a))

output

<class 'tuple'>

code

no = a.count(45)

Print (no)

output 1

code

i = a.index(3424)

Print (i)

output 3

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Ch=4 Practise set

Q1 Write a program to store 3 fruits in a list entered by user.

fruits = []

```
f1 = input("enter fruit name: ")  
fruits.append(f1)
```

```
f2 = input("enter fruit name: ")  
fruits.append(f2)
```

```
f3 = input("enter fruit name: ")  
fruits.append(f3)
```

```
Print(fruits)
```

Output

```
enter fruit name: Apple  
enter fruit name: Banana  
enter fruit name: mango
```

```
[Apple, Banana, mango]
```

Q2 Write a program to accept marks of 3 students and display them in a sorted manner

Marks = []

```
f1 = int(input("enter marks: "))  
marks.append(f1)
```

```
f2 = int(input("enter marks: "))  
marks.append(f2)
```

```
f3 = int(input("enter marks: "))  
marks.append(f3)
```

```
Marks, Sort ()  
Print(marks)
```

Output

```
enter marks: 34  
enter marks: 89  
enter marks: 80
```

```
[34, 80, 89]
```

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Q7 Check that tuple type cannot be changed in Python
output

$\Rightarrow a = (34, 234, "Harry")$ | Error Tuple can't not be
 $a[2] = "Larry"$ | changed.

Q8 Write a program to sum a list with 4 numbers

$\Rightarrow a = [2, 8, 1, 3]$ | output
print(sum(a)) | 12

Q9 Write a program to count the number of zeros in the following tuple
 $a = (7, 0, 8, 0, 0, 9)$

$\Rightarrow a = (7, 0, 8, 0, 0, 9)$ | output
 $n = a.count(0)$ | 3
print(n)