

```
In [ ]: # string: sequence of a characters.  
# delimit using ', '''
```

```
In [1]: string="Good Morning. Have a nice day!"  
print(string)
```

Good Morning. Have a nice day!

```
In [3]: # string slicing
```

```
In [4]: # print good morning from string  
print(string[0:12])
```

Good Morning

```
In [5]: # have a nice day  
print(string[14:])
```

Have a nice day!

```
In [7]: # nice  
print(string[-9:-5])
```

nice

```
In [8]: # Last word  
print(string[-1])
```

!

## Modify string

```
In [10]: # uppercase  
print(string.upper())
```

GOOD MORNING. HAVE A NICE DAY!

```
In [11]: # Lowercas  
print(string.lower())
```

good morning. have a nice day!

```
In [13]: # capitalize string  
print(string.capitalize())
```

Good morning. have a nice day!

```
In [14]: # title  
print(string.title())
```

Good Morning. Have A Nice Day!

```
In [17]: print(string.count('a'))
```

3

```
In [20]: str1="      "  
print(str1)
```

```
In [21]: print(str1.isspace()) #Returns True if all characters in the string are whitespace.
```

True

```
In [29]: st="      Hello, How      are you ?      "  
print(st)
```

Hello, How are you ?

```
In [30]: # trim  
print(st.strip())  
print(st.lstrip())  
print(st.rstrip())
```

Hello, How are you ?

Hello, How are you ?

Hello, How are you ?

```
In [31]: print(len(st))  
print(len(st.strip()))  
print(len(st.lstrip()))  
print(len(st.rstrip()))
```

31

23

27

27

```
In [32]: s="python is a object-oriented programming language"  
print(s)
```

python is a object-oriented programming language

```
In [34]: print(s.swapcase()) #Swaps cases, Lower case becomes upper case and vice versa
```

PYTHON IS A OBJECT-ORIENTED PROGRAMMING LANGUAGE

```
In [43]: s.find('s') # return the index of element
```

```
Out[43]: 8
```

```
In [45]: print(s.find('o'))
```

4

```
In [47]: print(s.rfind('o')) #Searches the string for a specified value and returns the last
```

30

```
In [50]: # Index  
print(s.index("p"))
```

0

```
In [52]: print(s.index('r'))
```

20

```
In [53]: # split string  
print(s.split())
```

['python', 'is', 'a', 'object-oriented', 'programming', 'language']

```
In [55]: st="Hi, How are you?"  
st.split(",")
```

```
Out[55]: ['Hi', ' How are you?']
```

```
In [56]: st.split("?")
```

```
Out[56]: ['Hi, How are you', '']
```

```
In [59]: # replace  
print(st.replace("Hi","Hello"))
```

Hello, How are you?

```
In [60]: print(st.replace("i","eyy"))
```

Heyy, How are you?

```
In [64]: # join  
st="this, is, comma, separed, data"  
st=st.split(",")  
print(":".join(st))
```

this: is: comma: separed: data

```
In [65]: #  
l=["this","is","comma", "separated","data"]  
print(",".join(l))
```

this,is,comma,separated,data

```
In [72]: print("!! ".join(l))
```

this!! is!! comma!! separated!! data

```
In [9]: # String Formatters
# String formatters allow us to print characters and values at once. You can use the
```

```
In [73]: age=23
city="pune"
print(" I am %s years old, belongs to %s"%(age,city))
```

I am 23 years old, belongs to pune

```
In [74]: name1="Riya"
name2="Seeta"
print("%s and %s are friend"%(name1, name2))
```

Riya and Seeta are friend

```
In [75]: age=23
city="pune"
print(" I am {} years old, belongs to {} ".format(age, city))
```

I am 23 years old, belongs to pune

```
In [76]: age=23
city="pune"
print(f" I am {age} years old, belongs to {city}")
```

I am 23 years old, belongs to pune

```
In [79]: # string concatenation
print("Hello"+" "+"world")
```

Hello world

```
In [80]: # reverse string
s="python is a object-oriented programming language"
s1=s[::-1]
print(s1)
```

egaugnal gnimmargorp detneiro-tcejbo a si nohtyp

```
In [ ]:
```

```
In [82]: # Python program to check whether the string is Palindrome
s=input("enter the string :")
if s==s[::-1]:
    print(f"{s} is palindrome")
else:
    print(f"{s} is not palindrome")
```

enter the string :malayalam  
malayalam is palindrome

```
In [83]: s=input("enter the string :")
print("string is palindrome" if s==s[::-1] else "not palindrome")
```

enter the string :liril  
string is palindrome

```
In [85]: # Reverse words in a given String in Python
s="python is a object-oriented programming language"
print(s.split()[::-1])
```

['language', 'programming', 'object-oriented', 'a', 'is', 'python']

```
In [88]: # Reverse words in a given String in Python
s="python is a object-oriented programming language"
s1=s.split()
print(" ".join(reversed(s1)))
```

language programming object-oriented a is python

```
In [169]: s="python is a object-oriented programming language"
s1=s.split()
l=[]
for i in s1:
    sp=i[::-1]
    l.append(sp)
st=" ".join(l)
print(st)
```

nohtyp si a detneiro-tcejbo gnimmargorp egaugnal

```
In [101]: # Ways to remove i'th character from string in Python
s="pythQn is a object-oriented programming language123"
# remove 'a' from string
print(s.replace('a',''))
print(s.replace('Q','o',1))
```

pythQn is object-oriented progrmming lnguge123  
python is a object-oriented programming language123

```
In [102]: # Ways to remove i'th character from string in Python
s="python is a Qbject-oriented programming language123"
# replace Q by o in second occurence
print(s.replace('Q','o',2))
```

python is a object-oriented programming language123

```
In [105]: # remove multiple characters from string
# Using translate() and maketrans()
s="pythQn is a Qbject-Qriented prQgramming language"
print(s.translate(s.maketrans("Q","o")))
```

python is a object-oriented programming language

In [ ]:

In [ ]:

```
In [108]: # Python program to print even length words in a string
s="python is a object-oriented programming language"
s=s.split()
for i in s:
    if len(i)%2==0:
        print(i)
```

```
python
is
language
```

```
In [110]: # Python - Uppercase Half String
s="python is a object-oriented programming language"
hl=len(s)//2
print(s[:hl]+s[hl:].upper())
```

```
python is a object-orientED PROGRAMMING LANGUAGE
```

```
In [115]: # Python program to capitalize the first and last character of each word in a string
s="python is a object-oriented programming language"
s=s.split()
li=[]
for i in s:
    f=i[0].upper()
    l=i[-1].upper()
    s1=f+i[1:-1]+l
    li.append(s1)
    st=" ".join(li)
print(st)
```

```
PythoN IS AA Object-orientED ProgramminG Language
```

```
In [154]: # split string in vowels
s=input("enter the string: ")
v="aeiouAEIOU"
for i in s:
    if i in v:
        s=s.replace(i,"*")
s1=s.split("*")
print(s1)
```

```
enter the string: python is a
['pyth', 'n ', 's ', '']
```

```
In [162]: # Reverse words in a given String in Python
s="python is a object-oriented programming language"
s1=s.split()[::-1]
s1=" ".join(s1)
print(s1)
print(s1.split()[::-1])
```

```
language programming object-oriented a is python
['python', 'is', 'a', 'object-oriented', 'programming', 'language']
```

```
In [ ]:
```