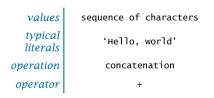
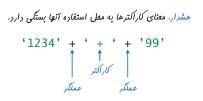
کار با دادههای متنی





expression	value
'Hi, ' + 'Bob'	'Hi, Bob'
'1' + ' 2 ' + '1'	'1 2 1'
'1234' + ' + ' + '99'	1234 + 99°
'1234' + '99'	'123499'



```
ففای قالی ففای قالی
1234 ، ۲ ، ۲ ، ۱234 ، 99 ، ۲ کاراکتر فاصله
```

```
In []: N s = 'Golzari'
    print(len(s))  #7
    print(max(s))  #z
    print(min(s))  #G
    print(ord('G'))  #71
    print(chr(71))  #G
```

```
print('py' in s)
                                 #True
           print('px' not in s)
                                 #True
           print(s == 'Python')
                                 #False
           print(s < 'sara')</pre>
                                 #True
           print(s.islower())
                                 #True
           print(s.isupper())
                                 #False
print(s.isalnum())
                                # True
           print(s.isalpha())
                                # False
In [ ]:
       N s = '#python3'
           print(s.isalnum())
                                # False
           print(s.isalpha())
                                # False
       s = '123'
In [ ]:
           print(s.isdigit())
                                # True
           print('\t'.isspace())
                                 #True
In [ ]: ▶ s = '12a3bcd4'
           k = 0
           for ch in s:
              if ch.isdigit() == True:
                  k += int(ch)
                          # 10 : 1+2+3+4
           print(k)
In [ ]:
       print(s.startswith('we'))
                                     # True
           print(s.endswith('thon'))
                                     # True
           print(s.find('o'))
                                      # 4
           print(s.index('o'))
                                      # 4
           print(s.find('f'))
                                     # -1
           #print(s.index('f'))
                                      # ValueError
           print(s.find('o',5))
                                     # 8
           print(s.find('o',10))
                                     # 14
           print(s.count('o'))
                                     # 3
           print(s.count('o',5))
                                     # 2
```

```
i = s.find('@')
           print(s[i+1:])
                                   #tabrizu.ac.ir
In [ ]:
       print(s.capitalize())
                                   # Welcom to python
           print(s.title())
                                   # Welcom To Python
        | s = 'PyThon'
In [ ]:
           print(s.lower())
                                  # python
           print(s.upper())
                                  # PYTHON
           print(s.swapcase())
                                  # pYtHON
In [ ]:
        ▶ s = 'Mohammad Zadeh'
           print(s.replace('Zadeh','Nejad'))
           #Mohammad Nejad
In [ ]:
       | s = '$$pyt$hon$$$'
           print(s.strip('$'))
                                 # pyt$hon
           print(s.lstrip('$'))
                               # pyt$hon$$$
           print(s.rstrip('$'))
                                 # $$pyt$hon
In []: N s = '##ali$$$'
           print(s.lstrip('#').rstrip('$')) # ali
In [ ]:

  | s = 'www.sanjesh.org'

           print(s.lstrip('www.')) # sanjesh.org
In [ ]:  ▶ | s = 'Python created by Rossum'
           a = s.split(' ')
                              # ['Python', 'created', 'by', 'Rossum']
           print(a)
        ▶ b = ['Python', 'created', 'by', 'Rossum']
In [ ]:
           c = ' '.join(b)
           print(c)
                           #Python created by Rossum
In [ ]:
        ▶ name = 'ali.py'
           a = name.split('.')
           print(a)
                             # ['ali', 'py']
           print(a[1])
                           # py
           print(repr(a[1])) # 'py'
In [ ]:

  | s = 'sara@gmail.com'

           u ,d = s.split('@')
           print(u) # sara
           print(d) # gmail.com
```

```
a = s.split('\n')
                          # ['ali', 'reza']
          print(a)
# ['ali', 'reza']
          print(b)
In []: | s = '127.02.0.001'
          b = s.split('.')
          a = '.'.join([str(int(i)) for i in b])
          print(a) # 127.2.0.1
In [ ]: | f = '001'
          print(int(f))
          print(str(int(f))) # 1
In [ ]: | s = '12'
          print(s.zfill(5)) # 00012
          print(s.zfill(3))
                           # 012
print(s.ljust(7,'+'))  # sara+++
print(s.rjust(7,'+'))  # +++sara
          print(s.center(7,'+'))
                                # ++sara+
In [ ]: | print('# format #')
          year = 2020
          e = 'referendum'
          print(f'Results of the {year} {e}')
          # Results of the 2020 referendum
lname = 'golzari'
          print('name: {0} family: {1}'.format(fname,lname))
          # name: sara family: golzari
print(f'name : {s}')
                               # ali
          print(f'name : {s!r}') # 'ali'
          print('name : {}'.format(s)) # ali
          print('name : {!r}'.format(s)) # 'ali'
```

```
In [ ]:
         n = 14
            print('{:d}'.format(n))
                                      # 14
            print('{0:d}'.format(n))
                                      # 14
            print('{:5d}'.format(n))
                                           14
In [ ]: ► a = 12
            b = 15
            print('{0:f} {1:d}'.format(a,b)) # 12.000000
            print('{1:f} {0:d}'.format(a,b)) # 15.000000 12
            print('{0:d} {1:f}'.format(a,b))
                                               # 12 15.000000
        f = 15.999
In [ ]:
            print('{:.2f}'.format(f))
                                        # 16.00
         | f = -15.999
In [ ]:
            print('{:.2f}'.format(f))
                                        # -16.00
In [ ]:
        | p = 0.83
            print('{:.2%}'.format(p)) # 83.00%
In [ ]:
         ▶ a = 20000000
            print('{:,}'.format(a))
                                        # 20,000,000
In [ ]:
         | n = 14 
            print('{:X}'.format(n))
                                        # E
            print('{:#X}'.format(n))
                                        # 0XE
In [ ]:
         ▶ print('{:b}'.format(n))
                                        # 1110
            print('{:#b}'.format(n))
                                         # 0b1110
         | n = 35 
In [ ]:
            print('{:*>6d}'.format(n))
                                          # ****35
            print('{:*<6d}'.format(n))</pre>
                                          # 35****
            print('{:*^6d}'.format(n))
                                          # **35**
```

```
دانشگاه شهید مدنی آذربایجان
برنامه نویسی مقدماتی با پایتون
امین گلزاری اسکوئی
۱۵۰۱–۱٤۰۱
```

Codes and Projects (click here) (https://github.com/Amin-Golzari-Oskouei/Python-Programming-Course-Basic-2021) slides and videos (click here) (https://drive.google.com/drive/folders/1ZsQjBJJ4UAAp9zrGxm3c4qrhnvGBUYHw)