

```
In [2]: import pandas as pd
df=pd.DataFrame({'A':[12,4,5,None,1],
                 'B':[7,2,54,3,None],
                 'C':[20,16,11,3,8],
                 'D':[14,3,None,2,6]})
index_=['row1','row2','row3','row4','row5']
df.index=index_
df
```

Out[2]:

	A	B	C	D
row1	12.0	7.0	20	14.0
row2	4.0	2.0	16	3.0
row3	5.0	54.0	11	NaN
row4	NaN	3.0	3	2.0
row5	1.0	NaN	8	6.0

```
In [3]: result=df.transform(func=lambda x:x+10)
result
```

Out[3]:

	A	B	C	D
row1	22.0	17.0	30	24.0
row2	14.0	12.0	26	13.0
row3	15.0	64.0	21	NaN
row4	NaN	13.0	13	12.0
row5	11.0	NaN	18	16.0

```
In [4]: result=df.transform(func=['sqrt','exp'])
result
```

Out[4]:

	A		B		C	
	sqrt	exp	sqrt	exp	sqrt	exp
row1	3.464102	162754.791419	2.645751	1.096633e+03	4.472136	4.851652e+08
row2	2.000000	54.598150	1.414214	7.389056e+00	4.000000	8.886111e+06
row3	2.236068	148.413159	7.348469	2.830753e+23	3.316625	5.987414e+04
row4	NaN	NaN	1.732051	2.008554e+01	1.732051	2.008554e+01
row5	1.000000	2.718282	NaN	NaN	2.828427	2.980958e+03

```
In [19]: text="AnjAlI kUMARi"
print(text.lower())
print(text.upper())
print(text.title())
print(text.capitalize())
print(text.swapcase())
print(text.casefold())
print(text.center(50))
print(text.center(50,'#'))
```

```
anjali kumari
ANJALI KUMARI
Anjali Kumari
Anjali kumari
aNJaLi KumarI
anjali kumari
                AnjAlI kUMARi
#####AnjAlI kUMARi#####
```

```
In [24]: print('anjaliiii'.count('i'))
print('you and you'.count('you'))
```

```
4
2
```

```
In [26]: print('youandyou'.endswith('you'))
print('youandyou'.endswith('and'))
```

```
True
False
```

```
In [30]: print('hii anjalli'.find('hii'))
print('i am happy'.find('happy'))
print('anjali'.find('j'))
```

```
0
5
2
```

```
In [33]: print('{} is a good girl.'.format('anjali'))
```

```
anjali is a good girl.
```

```
In [37]: print('random'.index('and'))
print('random'.index('m'))
```

```
1
5
```

```
In [41]: string='abc1234'
print(string.isalnum())
string='abc 123'
print(string.isalnum())
string='hdbwak'
print(string.isalnum())
```

True  
False  
True

```
In [47]: string='131231'  
print(string.isdecimal())  
print(string.isdigit())
```

True  
True

```
In [48]: string='coding_101'  
print(string.isidentifier())
```

True

```
In [50]: string='$print'  
print(string.isidentifier())
```

False

```
In [54]: print('anjali'.islower())  
print('Anjali'.isupper())  
print('1222'.isnumeric())  
print('anhalish'.isprintable())
```

True  
False  
True  
True

```
In [58]: print('\n\t\n'.isspace())  
print('anjali\tkumari'.isspace())
```

True  
False

```
In [61]: print('anjali kumari'.istitle())  
print('Anjali kumari'.istitle())  
print('Anjali Kumari'.istitle())
```

False  
False  
True

```
In [63]: print('-'.join('hello'))  
print('...'.join('happy'))
```

h-e-l-l-o  
h...a...p...p...y

```
In [65]: list1=['h','a','p','p','y']  
print("".join(list1))  
print("$".join(list1))
```

happy  
h\$a\$p\$p\$y

```
In [67]: print('i am going to school'.partition('am'))
```

```
('i ', 'am', ' going to school')
```

```
In [68]: string='good morning'  
new_string=string.replace('good','great')  
print(new_string)
```

```
great morning
```

```
In [ ]:
```