```
#2
import numpy as np

a=np.random.rand(20)
a_shaped=a.reshape(10,2)
print(a_shaped)
```

```
[[0.8304607  0.71350927]
 [0.79828779 0.27512489]
 [0.59240353 0.30174561]
 [0.47122809 0.51260298]
 [0.17497867 0.54649261]
 [0.60214315 0.55684236]
 [0.99367734 0.64185415]
 [0.98493188 0.72086809]
 [0.13594199 0.73575788]
 [0.52390299 0.2391813 ]]
```

```
#3
import numpy as np
m = np.arange(30).reshape(5,6)
a_sliced=m[:,2]
b_sliced=m[:,4]
a_index=2
b_index=4
c=np.delete(m,2,axis=1)
c=np.delete(c,3,axis=1)
print("A GRUBU: \n"),print(a_sliced)
print("B GRUBU: \n"),print(b_sliced)
print("C GRUBU: \n"),print(c)
```

```
A GRUBU:

[ 2  8 14 20 26]
B GRUBU:

[ 4 10 16 22 28]
C GRUBU:

[[ 0  1  3  5]
 [ 6  7  9 11]
 [12 13 15 17]
 [18 19 21 23]
 [24 25 27 29]]
(None, None)
```

```
#4
import numpy as np
m = np.arange(30).reshape(5,6)
b=m[:3,]
a=m[:(5-3),]
print(a)
print("\n")
print(b)
```

```
[[ 0  1  2  3  4  5]
 [ 6  7  8  9 10 11]]


[[ 0  1  2  3  4  5]
 [ 6  7  8  9 10 11]
 [12 13 14 15 16 17]]
```

Generate · Using ... · #5 # sutunlar y ekseni satirlar x ekseni olarak varsayip aldim import numpy as np import pandas as pd data=np.random.r🔍 · Close

```
#5
# sutunlar y ekseni satirlar x ekseni olarak varsayip aldim
import numpy as np
import pandas as pd
data=np.random.randint(0,20,(10,2))
df=pd.DataFrame(data)
print("\n"),
y=["sutun1","sutun2"]
data=df.columns=y
print(df)
```

```
     sutun1  sutun2
0      13      10
1       4       6
2       6      11
3       7       0
4       0      15
5       6       0
6      15       0
7       8      11
8       7      18
9      11       5
```

```python
#6
# C dilinde alisik oldugumuz traverse komutu yazmak istedim python for dongulerinde oradaki degiskenin onemsizliginin farkinda olarak kodumu yazdim.

x=[]
for traverse in range(1,11):
    bucket=f"i{traverse}"
    x.append(bucket)
print(x)
df.index=x
print(df)
```

```
['i1', 'i2', 'i3', 'i4', 'i5', 'i6', 'i7', 'i8', 'i9', 'i10']
      sutun1  sutun2
i1      13      10
i2       4       6
i3       6      11
i4       7       0
i5       0      15
i6       6       0
i7      15       0
i8       8      11
i9       7      18
i10     11       5
```

```python
#7 s Subclass kisaltmasidir
sozluk = {"A" : {"D":[1,2]},  "B" : {"E": [3,99,5]},  "C" : ["F",6]}
s1=sozluk["B"]
s2=s1["E"]
s2[1]=100
print(s2[1])
```

```
100
```

```python
import numpy as np

dizi=np.arange(1,11)
dizi=dizi.reshape(5,2)
print(dizi)
```

```
[[ 1  2]
 [ 3  4]
 [ 5  6]
 [ 7  8]
 [ 9 10]]
```

```python
import pandas as pd
df=pd.DataFrame(dizi)
x1=df.iloc[:,:1]
x2=df.iloc[:,1:2]
x3= np.append(x1, x2)
x3=x3.reshape(2,5)
print(x3)
```

```
[[ 1  3  5  7  9]
 [ 2  4  6  8 10]]
```

```python
#10
import numpy as np
a=np.array([1,2,3,4])
b=np.array([4,5,6,7])
c=np.append(a,b)
c=c.reshape(2,4)
print(c)
```

```
[[1 2 3 4]
 [4 5 6 7]]
```

```
x=np.random.randint(10,21,size=10)
import pandas as pd
import numpy as np
x.mean()
dene=[]
for i in x:
    ortalama=x.mean()
    if ortalama < i:
        dene.append(i)
print(dene)
print(x.mean())
print(x)
```

```
[19, 16, 18, 16, 19]
14.8
[19 12 16 13 12 13 18 16 10 19]
```

```
import numpy as np
x=np.random.randint(-50,50,size=10)
# Formulu yaziyorum
z_score=(x-x.mean())/x.std()
print(z_score)
import matplotlib.pyplot as plt

plt.hist(z_score,bins=22),
```

```
[-1.38672577  1.07534609 -0.73500086  0.27879343  1.03913915  1.03913915
 -0.69879392  1.32879466 -1.02465638 -0.91603556]
((array([1., 0., 1., 1., 0., 2., 0., 0., 0., 0., 0., 0., 1., 0., 0., 0.,
        0., 0., 3., 0., 1.]),
  array([-1.38672577, -1.26329302, -1.13986027, -1.01642753, -0.89299478,
        -0.76956203, -0.64612929, -0.52269654, -0.39926379, -0.27583104,
        -0.1523983 , -0.02896555,  0.0944672 ,  0.21789994,  0.34133269,
         0.46476544,  0.58819818,  0.71163093,  0.83506368,  0.95849642,
         1.08192917,  1.20536192,  1.32879466]),
  <BarContainer object of 22 artists>),)
```
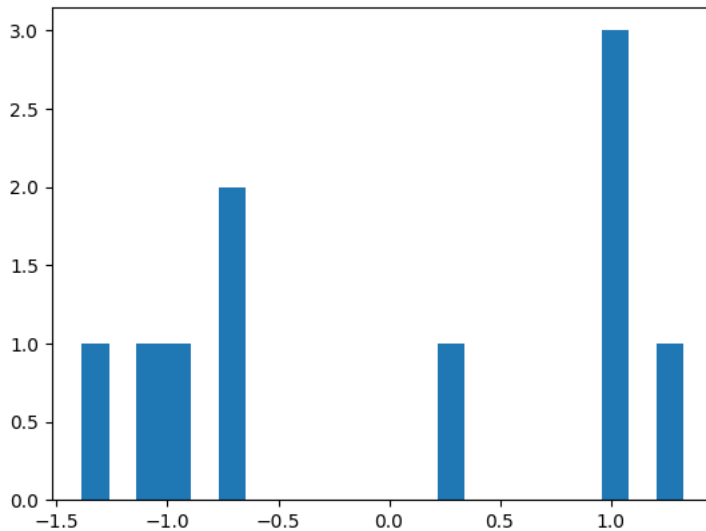


```
#13
import pandas as pd
df = pd.DataFrame({'gruplar': ['A', 'B', 'C', 'A', 'B', 'C'],
        'veri': [10,11,52,23,43,55]}, columns=['gruplar', 'veri'])
#Elimizde 1 tane veri oldugu icin o grubun ortalamasi o sayiya esittir bir anlam ifade etmez
df.veri.mean()
```

```
32.333333333333336
```

⌄ Alttaki kod hata verecek cunku newyorkveri dosyasi diye bir dosyamiz yok

Double-click (or enter) to edit

```python
import pandas as pd

#yeni_veri=pd.read_csv("newyork_kira_verileri.csv",sep=;)
#yeni_veri.head(


def funk(_input):
    buyu=_input.upper()
    return buyu
print(funk("ahmet"))
```

    AHMET