

```
In [1]: import numpy as np
```

```
In [37]: np.random.random()
```

```
Out[37]: 0.7203244934421581
```

```
In [40]: np.random.seed(1)  
np.random.random()
```

```
Out[40]: 0.417022004702574
```

```
In [15]: np.random.uniform(1,100)
```

```
Out[15]: 15.528833190894192
```

```
In [17]: np.random.uniform(1,100,10).reshape(2,5)
```

```
Out[17]: array([[67.37628351, 42.31317543, 56.31029302, 14.89830692, 20.61204742],  
               [80.2737123 , 96.857896 , 32.02899364, 69.53993895, 87.76252608]])
```

```
In [23]: np.random.randint(1,10,15).reshape(3,5)
```

```
Out[23]: array([[6, 2, 4, 5, 9],  
               [2, 5, 1, 4, 3],  
               [1, 5, 3, 8, 8]])
```

```
In [28]: a=np.random.randint(1,10,6)  
a
```

```
Out[28]: array([9, 7, 5, 6, 7, 3])
```

```
In [29]: np.max(a)
```

```
Out[29]: 9
```

```
In [30]: np.min(a)
```

```
Out[30]: 3
```

```
In [32]: a[np.argmax(a)]
```

```
Out[32]: 9
```

```
In [33]: a[np.argmin(a)]
```

```
Out[33]: 3
```

```
In [34]: np.argmax(a)
```

```
Out[34]: 5
```

```
In [35]: a[a%2==1]=-1  
a
```

```
Out[35]: array([-1, -1, -1,  6, -1, -1])
```

```
In [43]: a=np.random.randint(1,50,6)
a
```

```
Out[43]: array([ 7, 26, 21, 38, 19, 21])
```

```
In [44]: np.where(a%2==1,-1,a)
```

```
Out[44]: array([-1, 26, -1, 38, -1, -1])
```

```
In [45]: out=np.where(a%2==1,-1,a)
out
```

```
Out[45]: array([-1, 26, -1, 38, -1, -1])
```

```
In [46]: a=np.random.randint(1,50,10)
a
```

```
Out[46]: array([12, 43, 29, 30, 15,  5, 24, 24, 42, 31])
```

```
In [48]: a=np.sort(a)
a
```

```
Out[48]: array([ 5, 12, 15, 24, 24, 29, 30, 31, 42, 43])
```

```
In [49]: np.percentile(a,25)
```

```
Out[49]: 17.25
```

```
In [50]: np.percentile(a,50)
```

```
Out[50]: 26.5
```

```
In [51]: np.percentile(a,99.8)
```

```
Out[51]: 42.982
```

```
In [ ]:
```