

In [222]:

```
rnd = random.randint(1,10)
print(rnd)
```

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コンピュータ言語 第2回学習メモ

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学習記録2-1 授業メモ

マークダウンにショートカットはescを押して1 (h1)

マークダウンにチェンジはescを押してm

random.randomは0～1の乱数生成

random.randint(min, max)は範囲を指定できる

学習記録2-2

In [207]:

```
def fizz_buzz():
    for i in range(1, 101):
        if i % 15 == 0:
            print("fizzbuzz")
        elif i % 3 == 0:
            print("fizz")
        elif i % 5 == 0:
            print("buzz")
        else:
            print(i)
```

In [209]:

```
fizzbuzz(i)
```

1
2
fizz
4
buzz
fizz
7
8
fizz
buzz
11
fizz
13
14
fizzbuzz
16
17
fizz
19
buzz
fizz
22
23
fizz
buzz
26
fizz
28
29
fizzbuzz
31
32
fizz
34
buzz
fizz
37
38
fizz
buzz
41
fizz
43
44
fizzbuzz
46
47
fizz
49
buzz
fizz
52
53
fizz
buzz
56
fizz
58
59
fizzbuzz
61

62
fizz
64
buzz
fizz
67
68
fizz
buzz
71
fizz
73
74
fizzbuzz
76
77
fizz
79
buzz
fizz
82
83
fizz
buzz
86
fizz
88
89
fizzbuzz
91
92
fizz
94
buzz
fizz
97
98
fizz

In [131]:

```
df = pd.DataFrame(  
    {"Country": ["Japan", "US", "Korea", "France"],  
     "ISD": [81, 1, 82, 32]}  
)  
  
df
```

Out[131]:

	Country	ISD
0	Japan	81
1	US	1
2	Korea	82
3	France	32

In [142]:

```
keylist = ["Japan","US", "Korea", "France"]
valuelist = [81,1,82,32]
isd = dict(zip(keylist, valuelist))
print(isd)
print(isd.keys())
print(isd.values())
print(isd.items())
```

```
{'Japan': 81, 'US': 1, 'Korea': 82, 'France': 32}
dict_keys(['Japan', 'US', 'Korea', 'France'])
dict_values([81, 1, 82, 32])
dict_items([('Japan', 81), ('US', 1), ('Korea', 82), ('France', 32)])
```

In [153]:

```
mylist = [1,2,3,4,5]
for i in mylist:
    print(i ** 2)
```

```
1
4
9
16
25
```

In [392]:

```
for i in range(1,10):
    for j in range(1,10):
        print((i*j), end=' ')
    print()
```

```
1 2 3 4 5 6 7 8 9
2 4 6 8 10 12 14 16 18
3 6 9 12 15 18 21 24 27
4 8 12 16 20 24 28 32 36
5 10 15 20 25 30 35 40 45
6 12 18 24 30 36 42 48 54
7 14 21 28 35 42 49 56 63
8 16 24 32 40 48 56 64 72
9 18 27 36 45 54 63 72 81
```

In [506]:

```
rnd = np.random.randint(1,7, 600)
rnd1 = np.sum(rnd ==1)
rnd2 = np.sum(rnd==2)
rnd3 = np.sum(rnd==3)
rnd4 = np.sum(rnd==4)
rnd5 = np.sum(rnd==5)
rnd6 =np.sum(rnd==6)
```

In [504]:

```
-----  
TypeError                                Traceback (most recent call last)  
<ipython-input-504-4751ec1f32a7> in <module>()  
----> 1 rnd_dict = dict(zip(rnd_key, rnd_value))  
      2 print(rnd_dict)
```

TypeError: zip argument #2 must support iteration

In [508]:

```
rnd_value = [rnd1,rnd2,rnd3,rnd4, rnd5, rnd6]  
rnd_key = [1,2,3,4,5,6]  
print(rnd_value)  
print(rnd_key)  
rnd_dict = dict(zip(rnd_key, rnd_value))  
print(rnd_dict)
```

```
[102, 117, 112, 83, 87, 99]  
[1, 2, 3, 4, 5, 6]  
{1: 102, 2: 117, 3: 112, 4: 83, 5: 87, 6: 99}
```

In [413]:

```
rnd_2 = np.array([np.random.random(1000)])  
rnd_key = np.array([0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.9, 1])
```

In [433]:

```
df_rnd = pd.DataFrame(np.random.random(1000))  
df_key = pd.DataFrame(rnd_key)  
  
df
```