

```
In [3]: i = 8
while i <= 14:
    print(i)
    i+=2
```

```
8
10
12
14
```

```
In [9]: import numpy as np

randnums = np.random.randint(-50,51,5)
my_vect = []
for x in randnums:
    if x > 0: x = x-2
    elif x < 0: x = x+1
    else: x = 51
    my_vect.append(x)
print(randnums, my_vect)
```

```
[ 42  45 -25 -37  39] [40, 43, -24, -36, 37]
```

```
In [37]: import pandas as pd

df1 = pd.DataFrame({"C1": ["a","a","b","b","c","c"],
                    "C2": [1,2,3,3,4,5],
                    "C3": ["Blue","Blue","Blue","Red","Red","Blue"]})
df2 = df1[df1.C3 == "Blue"]
df3 = df2.groupby(['C1']).sum()
print("df1",df1, "df2",df2, "df3",df3, sep = '\n\n')
```

df1

	C1	C2	C3
0	a	1	Blue
1	a	2	Blue
2	b	3	Blue
3	b	3	Red
4	c	4	Red
5	c	5	Blue

df2

	C1	C2	C3
0	a	1	Blue
1	a	2	Blue
2	b	3	Blue
5	c	5	Blue

df3

	C2
C1	
a	3
b	3
c	5

In []: