In [1]:
```
dates = [1982,1980,1973]
N = len(dates)

for i in range(N):
    print(dates[i])
```

```
1982
1980
1973
```

In [2]:
```
for i in range(0, 8):
    print(i)
```

```
0
1
2
3
4
5
6
7
```

In [3]:
```
squares = ['red', 'yellow', 'green', 'purple', 'blue']

for i in range(0, 5):
    print("Before square ", i, 'is',  squares[i])
    squares[i] = 'white'
    print("After square ", i, 'is',  squares[i])
```

```
Before square  0 is red
After square  0 is white
Before square  1 is yellow
After square  1 is white
Before square  2 is green
After square  2 is white
Before square  3 is purple
```

```
After square  3 is white
Before square  4 is blue
After square  4 is white
```

In [4]:
```
squares=['red', 'yellow', 'green', 'purple', 'blue']

for i, square in enumerate(squares):
    print(i, square)
```

```
0 red
1 yellow
2 green
3 purple
4 blue
```

In [5]:
```
dates = [1982, 1980, 1973, 2000]

i = 0
year = dates[0]

while(year != 1973):
    print(year)
    i = i + 1
    year = dates[i]


print("It took ", i ,"repetitions to get out of loop.")
```

```
1982
1980
It took  2 repetitions to get out of loop.
```

In [7]:
```
squares = ['orange', 'orange', 'purple', 'blue ', 'orange']
new_squares = []
i=0
while(squares=='orange'):
    new_squares.append(squares[i])
    i=i+1
```

In [8]:
```
squares = ['orange', 'orange', 'purple', 'blue ', 'orange']
new_squares = []
i = 0
while(i < len(squares) and squares[i] == 'orange'):
    new_squares.append(squares[i])
    i = i + 1
print (new_squares)
```

```
['orange', 'orange']
```

In [ ]:
```

```