# Practice 1

In [2]:

```
mynames=['Joe', 'Zoe', 'world', 'Brad', 'Angeline', 'world', 'Zuki', 'Tom',
         'Paris', 'world', 'magic']
for i in range(0,11):
    if(mynames[i]=="USA"):
        print("TRUE")
        break
    elif(i==10):
        print("FALSE")
        break
```

```
FALSE
```

# Practice 2

In [3]:

```
count=0
for item in mynames:
    if(item=="world"):
        count+=1
print(count)
```

```
3
```

# Practice 3

In [5]:

```
dataset=list(range(1,31))
even=0
odd=0
for item in dataset:
    if(item%2==0):
        even+=1
    else:
        odd+=1
print(even,odd)
```

```
15 15
```

# Practice 4

In [6]:

```
even_list=[]
for item in dataset:
    if(item%2==0):
        even_list.append(item)
        if(len(even_list)==5):
            print(even_list)
            break
```

```
[2, 4, 6, 8, 10]
```

# Practice 5

In [16]:

```
for i in range(len(dataset)-1,25,-1):
    if(dataset[i]%2!=0):
        print(dataset[i],end=" ")
print("Last two odd numbers")
```

```
29 27 Last two odd numbers
```

# Practice 6

In [19]:

```
x=[1]
y=[2,3]
for i in range(0,5):
    val=int(input("= "))
    x.append(val)
    y.append(val)
x.extend(y)
name=input("Enter string = ")
x.insert(0,name)
print("x -> ",x)
print("y -> ",y)
```

```
= 1
= 2
= 3
= 4
= 5
Enter string = Praveen
x ->  ['Praveen', 1, 1, 2, 3, 4, 5, 2, 3, 1, 2, 3, 4, 5]
y ->  [2, 3, 1, 2, 3, 4, 5]
```

# Practice 7

In [20]:

```
squares=[]
for i in range(1,41):
    if(i in range(1,11) or (i in range(30,41))):
        squares.append(i**2)

print(squares)
```

```
[1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 900, 961, 1024, 1089, 1156, 1225, 129
6, 1369, 1444, 1521, 1600]
```

# Practice 8

In [21]:

```
number=int(input("Enter the number = "))
for i in range(1,11):
    print(number,"x",i,"=",number*i)
```

```
Enter the number = 5
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```