In [2]:
```
2%2
```

Out[2]:
```
0
```

In [3]:
```
3%2
```

Out[3]:
```
1
```

In [4]:
```
41%40
```

Out[4]:
```
1
```

In [5]:
```
20%20 #even number
```

Out[5]:
```
0
```

In [6]:
```
20%2 == 0
```

Out[6]:
```
True
```

In [7]:
```
21 % 2 ==0
```

Out[7]:
```
False
```

In [8]:
```
def even_check(number):
    result = number % 2 == 0
    return result
```

In [9]:
```
even_check(21)
```

Out[9]:
```
False
```

In [10]:
```
even_check(20)
```

Out[10]:
```
True
```

In [11]:
```
def even_check(number):
    return  number % 2 == 0
```

In [12]:
```
even_check(3)
```

Out[12]:
```
False
```

In [13]:
```
even_check(2)
```

Out[13]:
```
True
```

In [14]:
```
# RETURN TRUE IF ANY NUMBER IS EVEN INSIDE A LIST
```

In [18]:
```
def check_even_list(num_list):

    for number in num_list:
        if number % 2 ==0:
            return True
        else:
            pass
```

In [19]:
```
check_even_list([1,3,5])
```

In [20]:
```
check_even_list([2,4,5])
```

Out[20]:
```
True
```

In [22]:
```
check_even_list([2,1,1,1])
```

Out[22]:
```
True
```

In [23]:
```
check_even_list([1,1,1,2])
```

Out[23]:
```
True
```

In [24]:
```
def check_even_list(num_list):

    for number in num_list:
        if number % 2 ==0:
            return True
        else:
            pass

    return False
```

In [25]:
```
check_even_list([1,3,5])
```

Out[25]:
```
False
```

In [26]:
```
def check_even_list(num_list):
    # return all the even numbers in a list

    # placeholder variables
    even_numbers = []


    for number in num_list:
        if number % 2 ==0:
            even_numbers.append(number)

        else:
            pass

    return even_numbers
```

In [27]:
```
check_even_list([1,2,3,4,5])
```

Out[27]:
```
[2, 4]
```

In [28]:
```
check_even_list([1,3,5])
```

Out[28]:
```
[]
```

In [ ]:
```

```