

# #Conditional Statements

## 1.if

```
In [1]: if True:  
    print('Data Science')
```

Data Science

```
In [13]: if False:  
    print('Data Science')    #Nothing will print
```

```
In [16]: if 0:  
    print('python')
```

```
In [17]: if 1:          # 1 = true  
    print('python')
```

python

```
In [9]: age = 22  
if age >= 18:  
    print('Eligible to vote')
```

Eligible to vote

```
In [12]: age = 30  
if age > 18:  print('Eligible to vote')      #short hand if
```

Eligible to vote

```
In [10]: if False:  
    print('Data Science')  
print('bye for now')
```

bye for now

```
In [11]: if True:  
    print('Data Analysis')  
print('Data Science')
```

Data Analysis  
Data Science

```
In [23]: x = 4  
r = x % 2  
  
if r == 0:  
    print('Even number')  
print('odd number')
```

Even number  
odd number

```
In [ ]:
```

## 2.if else

```
In [18]: if True:
    print('Learn Python')
else:
    print('Not Learn Python')
```

Learn Python

```
In [19]: if False:
    print('Learn Python')
else:
    print('Not Learn Python')
```

Not Learn Python

```
In [20]: if True: print('Go outside')
else: print('Not Go outside')
```

Go outside

```
In [21]: if 0: print('Go outside')
else: print('Not Go outside')
```

Not Go outside

```
In [24]: x = 9
r = x % 2

if r==0:
    print('Even number')
else:
    print('Odd number')
```

Odd number

```
In [25]: x = 22
r = x % 2

if r==0:
    print('Even number')
else:
    print('Odd number')
```

Even number

## 3.Nested if

```
In [26]: x = 6
r = x % 2

if r==0:
    print('Even number')
    if x>7:
        print('greater number')
else:
    print('Odd number')
```

Even number

```
In [27]: x = 8
r = x % 2

if r==0:
    print('Even number')
    if x>7:
        print('greater number')
else:
    print('Odd number')
```

Even number  
greater number

```
In [28]: x = 9
r = x % 2

if r==0:
    print('Even number')
    if x>7:
        print('greater number')
else:
    print('Odd number')
```

Odd number

```
In [29]: x = 6
r = x % 2

if r==0:
    print('Even number')
    if x>7:
        print('greater number')
    else:
        print('lesser number')
else:
    print('Odd number')
```

Even number  
lesser number

```
In [32]: x = 8
r = x % 2

if r==0:
    print('Even number')
    if x>7:
        print('greater number')
    else:
        print('lesser number')
else:
    print('Odd number')
```

Even number  
greater number

```
In [33]: x = 13
r = x % 2

if r == 0:
    print('Even number')
```

```

if x>5:
    print('greater number')
else:
    print('lesser number')

else:
    print('Odd Number')

```

Odd Number

## 4.Multiple if

```

In [34]: x = 3

if x==1:
    print('one')
if x==2:
    print('two')
if x==3:
    print('three')
if x==4:
    print('four')

```

three

```

In [35]: x = 1

if x==1:
    print('one')
if x==2:
    print('two')
if x==3:
    print('three')
if x==4:
    print('four')

```

one

```

In [36]: x = 5

if x==1:
    print('one')
if x==2:
    print('two')
if x==3:
    print('three')
if x==4:
    print('four')

```

## 5.if elif else

```

In [37]: x = 1

if x==1:
    print('one')

```

```
elif x==2:  
    print('two')  
elif x==3:  
    print('three')  
elif x==4:  
    print('four')  
  
else:  
    print('not found')
```

one

```
In [38]: x = 6  
  
if x==1:  
    print('one')  
elif x==2:  
    print('two')  
elif x==3:  
    print('three')  
elif x==4:  
    print('four')  
  
else:  
    print('not found')
```

not found

```
In [ ]:
```