

#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:                    # 0 = False  
         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 []: