

# Conditional Statement

-if

-else

-if else

-if elif else

-nested if

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

Data Science

```
In [2]: if False:
        print('Data Science')
        print('bye-bye')
```

bye-bye

```
In [3]: if True:
        print('Data Science')
        print('bye-bye')
```

Data Science

bye-bye

```
In [4]: if True:
        print('data science')
        else:
        print('bye-bye')
```

data science

```
In [5]: if False:
        print('data science')
        else:
        print('bye-bye')
```

bye-bye

```
In [6]: x=20
        r=x%2

        if r==0:
            print('even')
```

```
else:
    print('odd')
```

even

```
In [7]: x=3
        r=x%2

        if r==0:
            print('even')
        else:
            print('odd')
```

odd

```
In [11]: x=3
         r=x%2

         if r!=0:
             print('odd')
```

odd

```
In [14]: x=7
         r=x%2
         if r==0:
             print('even')
```

```
In [15]: x=7
         r=x%2

         if r==1:
             print('odd')
```

odd

```
In [16]: x=5
         r=x%2
         if r==0:
             print('even')
         print('odd')
```

odd

```
In [17]: x=10
         r=x%2
         if r==0:
             print('even')
         print('odd')
```

even

odd

```
In [18]: x=9
         r=x%2
         if r==0:
             print('even')
         if r==1:
             print('odd')
```

odd

```
In [19]: x=8
r=x%2

if r==0:
    print('even')
else:
    print('odd')
```

even

```
In [20]: x=9
r=x%2
if r!=0:
    print('odd')
else:
    print('even')
```

odd

```
In [21]: x=3
r=x%2

if r==0:
    print('even')
    if r>5:
        print('greater')
else:
    print('odd')
```

odd

```
In [22]: x=4
r=x%2

if r==0:
    print('even')
    if r>5:
        print('greater')
else:
    print('odd')
```

even

```
In [24]: x=4
r=x%2

if r==0:
    print('even')
    if r>5:
        print('greater')
    else:
        print('lesser')
else:
    print('odd')
```

even  
lesser

```
In [27]: x = 3

if x == 1:
    print('one')
if x == 2:
    print('Two')
if x == 3:
    print('Three')
if x == 4:
    print('four')
```

Three

```
In [26]: x = 3

if x == 1:
    print('one')
elif x == 2:
    print('Two')
elif x == 3:
    print('Three')
elif x == 4:
    print('four')
```

Three

```
In [29]: x=5
if x==1:
    print('one')
elif x==2:
    print('two')
elif x==3:
    print('three')
elif x==4:
    print('four')
else:
    print('other')
```

other

```
In [31]: age=1
if age>18:
    print('eligible to vote')
else:
    print('not aligible to vote')
```

not aligible to vote

```
In [32]: age=19
if age>18:
    print('eligible to vote')
else:
    print('not aligible to vote')
```

eligible to vote

```
In [ ]:
```