

# 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 eligible to vote')
```

not eligible to vote

```
In [32]:
```

```
age=19  
if age>18:  
    print('eligible to vote')  
else:  
    print('not eligible to vote')
```

eligible to vote

```
In [ ]:
```