

Conditional Statements

1.if

2.else

3.nested if

4.if elif else

if

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

Data Science

```
In [2]: if False:  
    print('Data Science') #nothing willl print
```

```
In [3]: if 0:          # 0 = false  
    print('hello')
```

```
In [4]: if 1:          # 1 = True  
    print('hello')
```

hello

```
In [5]: age = 22  
if age >= 18:  
    print('eligible to give vote')
```

eligible to give vote

```
In [6]: age = 40  
if age > 18: print('eligible to give vote')
```

eligible to give vote

```
In [7]: if False:  
    print('Data Science')  
print('study hard')
```

study hard

```
In [8]: if True:  
    print('Data Science')  
print('study hard')
```

Data Science
study hard

```
In [9]: x = 6  
r = x%2  
  
if r==0:
```

```
print('Even number')
print('odd number')
```

Even number
odd number

if else

```
In [10]: if True:
    print('offline class')
else:
    print('online class')
```

offline class

```
In [11]: if False:
    print('offline class')
else:
    print('online class')
```

online class

```
In [12]: if True: print('study time')
else: print('play time')
```

study time

```
In [13]: if 0: print('study time')
else: print('play time')
```

play time

```
In [14]: x= 11
r = x%2

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

Odd number

```
In [15]: x= 18
r = x%2

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

Even number

Nested if

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

if r==0:
    print('Even number')
    if x>9:
        print('Greater number')
```

```
    else:  
        print('Odd number')
```

Even number

```
In [20]: x = 10  
r = x%2  
  
if r==0:  
    print('Even number')  
    if x>9:  
        print('Greater number')  
  
else:  
    print('Odd number')
```

Even number

Greater number

```
In [21]: x = 9  
r = x%2  
if r==0:  
    print('Even number')  
    if x>6:  
        print('Greater number')  
else:  
    print('Odd number')
```

Odd number

```
In [22]: x = 4  
r = x%2  
  
if r==0:  
    print('Even number')  
    if x>5:  
        print('Greater number')  
    else:  
        print('Lesser number')  
  
else:  
    print('Odd number')
```

Even number

Lesser number

```
In [23]: x = 6  
r = x%2  
if r==0:  
    print('Even number')  
    if x>5:  
        print('Greater number')  
    else:  
        print('Lesser number')  
  
else:  
    print('Odd number')
```

Even number

Greater number

```
In [24]: x = 7
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

multiple if

```
In [25]: x=4
if x==1:
    print('one')
if x==2:
    print('two')
if x==3:
    print('three')
if x==4:
    print('four')
```

four

```
In [26]: x=2

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

two

```
In [27]: x=5

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

if elif else

```
In [30]: 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 [31]: x=5

```
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 []: