

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 []: