

In [1]: `#Conditional Statements`

In [2]: `if True:  
 print('Data Science')`

Data Science

In [3]: `if False:  
 print('Data Science')  
 print('Bye For Now')`

Bye For Now

In [4]: `if True:  
 print('Data Science')  
 print('Bye For Now')`

Data Science

Bye For Now

In [5]: `x = 4  
r = x % 2  
if r==0:  
 print('Even number')`

Even number

In [6]: `x = 5  
r = x % 2  
if r==0:  
 print('Even number')`

In [7]: `x = 5  
r = x % 2  
if r==0:  
 print('Even number')  
if r==1:  
 print('Odd number')`

Odd number

In [8]: `x = 13  
r = x % 2  
if r==0:  
 print('Even number')  
if r==1:  
 print('Odd number')`

Odd number

In [9]: `x = 14  
r = x % 2  
if r==0:  
 print('Even number')  
else:  
 print('Odd number')`

Even number

In [10]: `x = 14  
r = x % 2`

```
if r==0:  
    print('Even number')  
if r==1:  
    print('Odd number')  
if r==2:  
    print('Even number')
```

Even number

In [13]: *#if-else*

```
In [14]: x = 2  
r = x % 2  
  
if r == 0:  
    print(' Even number')  
else:  
    print('Odd Number')
```

Even number

```
In [15]: x = 4  
r = x % 2  
  
if r == 0:  
    print('Even number')  
    if x>5:  
        print('greater number')  
else:  
    print('Odd Number')
```

Even number

In [16]: *#Nested-if*

```
In [17]: x = 6  
r = x % 2  
if r == 0:  
    print('Even number')  
    if x>5:  
        print('greater number')  
    else:  
        print('not greater')  
else:  
    print('Odd Number')
```

Even number

greater number

```
In [18]: x = 1  
r = x % 2  
if r == 0:  
    print('Even number')  
    if x>5:  
        print('greater number')  
    else:  
        print('not greater')  
else:  
    print('Odd Number')
```

Odd Number

In [19]: *#if- elif-else*

```
In [20]: x = 1

if(x == 1):
    print('Hi')
if(x == 2):
    print('Chinnu')
if(x == 3):
    print('How are you doing?')
if(x == 4):
    print('Gur1')
```

Hi

```
In [21]: x = 2

if(x == 1):
    print('Hi')
elif(x == 2):
    print('Chinnu')
elif(x == 3):
    print('How are you doing?')
elif(x == 4):
    print('Gur1')
```

Chinnu

```
In [22]: x = 5

if(x == 1):
    print('Hi')
elif(x == 2):
    print('Chinnu')
elif(x == 3):
    print('How are you doing?')
elif(x == 4):
    print('Gur1')
else:
    print('Incorrect')
```

Incorrect