Conditional Statement

if

else

if elif else

nasted if.. else

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

```
hello
```

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

```
  Cell In[2], line 2
    print('hello')
    ^
IndentationError: expected an indented block after 'if' statement on line 1
```

In [3]:
```
if True:
    print('hello')
```

```
hello
```

In [4]:
```
if False:
    print('bye')
```

In [5]:
```
if True:
    print('Data Science')
print('bye for now')
```

```
Data Science
bye for now
```

In [6]:
```
if False:
    print('Data Science')
print('bye for now')
```

```
bye for now
```

In [7]:
```
if True:
    print('Data Science')

print('bye for now')
```

```
Data Science
bye for now
```

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

else:
    print('bye for now')
```

```
Data Science
```

In [9]:
```
if False:
    print('Data Science')
```

```
else:
    print('bye for now')
```

```
bye for now
```

Write python code to cheak wheather number is even or odd

In [10]:
```
x = 4
r = x % 2

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

```
Even number
```

In [11]:
```
x = 5

r = x  % 2

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

In [12]:
```
x = 6
r = x % 2
if r == 0:
    print('Even number')

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

```
Even number
```

In [13]:
```
x = 6
r = x % 2

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

```
Even number
```

In [14]:
```
x = 6
r = x % 2

if r == 0:
    print('Even number')
print('odd numbaer')
```

```
Even number
odd numbaer
```

In [15]:
```
x = 4
r = x % 2
if r == 0:
    print('Even number')
else:
    print('odd number')
```

```
Even number
```

In [16]:
```
x = 4
r = x % 2
if r == 0: print('Even number')
else: print('odd number')
```

```
Even number
```

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

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

```
Even number
```

In [18]:
```
x = 9
r = x % 2

if r == 0:
    print('Even number')

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

```
odd number
```

Nested if

In [19]:
```
x = 3
r = x % 2
if r == 0:
    print('Even number')
    if x>5:
        print('greater number')
else:
    print('Odd number')
```

```
Odd number
```

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

if r == 0:
    print('Even number')

    if x>5:
        print('greater number')
    else:
        print('smaller number')

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

```
Even number
greater number
```

In [21]:
```
x = 4

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

```
four
```

In [22]:
```
x = 2

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

```
Two
```

In [23]:
```
x = 10

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

In [24]:
```
x = 10

if x == 1:
    print('one')

elif x == 2:
    print('Two')
elif x == 3:
    print('Three')
elif x == 4:
    print('four')

else:
    print('number not found')
```

```
number not found
```

In [25]:
```
num = int(input("Enter a number: "))

if num > 0:
 print("Positive")
elif num < 0:
 print("Negative")
else:
 print("Zero")
```

```
Zero
```

In [ ]:
```

```