07-11-2025

Conditional Statement

.if .else .nested if .if elif else

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

```
Data Science
```

```
In [2]: if False:
            print('Data Science')
        print('bye for now')
```

```
bye for now
```

```
In [3]: if True:
            print('Data Science')
        print('bye for now')
```

```
Data Science
bye for now
```

```
In [4]: if True:
            print('Data Science')
        else:
            print('bye for now')
```

```
Data Science
```

```
In [5]: if False:
            print('Data Science job')
        else:
            print('no job')
```

```
no job
```

```
In [6]: x = 4
        r = x % 2

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

```
Even number
```

```
In [7]: x = 5
        r = x % 2

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

```
In [8]: x = 5
        r = x % 2
```

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

```
Odd number
```

In [9]:
```python
x = 7
r = x % 2

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

```
Odd number
```

In [10]:
```python
x = 5
r = x % 2

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

print('odd number')
```

```
odd number
```

In [11]:
```python
x = 4
r = x % 2

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

print('odd number')
```

```
Even number
odd number
```

In [12]:
```python
x = 9
r = x % 2

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

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

```
odd number
```

In [13]:
```python
x = 8
r = x % 2

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

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

```
Even number
```

In [14]:
```python
x = 9
r = x % 2
```

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

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

odd number

In [15]:
```python
x = 3
r = x % 2

if r == 0:
    print('Even number')
    if x>5:
        print('greater number')

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

Odd Number

In [16]:
```python
x = 4
r = x % 2

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

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

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

Even number

In [17]:
```python
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 [18]:
```python
x = 13
r = x % 2

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

```python
    if x>5:
        print('greater number')
    else:
        print('lesser number')

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

```
Odd Number
```

In [19]:
```python
x = 3

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

```
Three
```

In [20]:
```python
x = 1

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

```
one
```

In [21]:
```python
x = 5

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 [26]:
```python
age = 19
if age > 18: print("Eligible to Vote.")
```

```
Eligible to Vote.
```

07-11-2025 Geeks for Geeks tasks

In [27]:
```python
age=19
if age >18:
 print('eligible to vote')
else:
 print ('not eligible to vote')
```

eligible to vote

In [28]:
```python
age=18
if age >18:
 print('eligible to vote')
else:
 print ('not eligible to vote')
```

not eligible to vote

In [29]:
```python
age=10
if age <=12:
 print ('travel for free')
else:
 print('pay for the ticket')
```

travel for free

In [30]:
```python
#short hand if else
marks=45
res="pass" if marks>=40 else "fail"
print(f"result: {res}")
```

result: pass

In [31]:
```python
age=25
if age <=12:
 print ('child')
elif age<=19:
 print ('teenager')
elif age <=35:
 print('young adult')
else:
 print ('adult')
```

young adult

In [33]:
```python
age=70
is_member=True
if age>= 60:
    if is_member:
        print('30% senior discount')
    else:
        print ('20% senior discount')
else:
 print('not eligible for senior discount')
```

30% senior discount

In [34]:
```python
age=20
s= "adult" if age >=18 else "minor"
print (s)
```

adult

In [36]:
```python
number=3
match number:
 case 1:
     print('one')
 case 2|3:
     print('two or three')
 case _:
     print('other numbers')
```

two or three

In [37]:
```python
j_angry=True
s_angry=True
if (j_angry & s_angry==True):
 print('you are in trouble')
else:
 print('you are not in trouble')
```

you are in trouble

In [38]:
```python
j_angry=True
s_angry=False
if (j_angry & s_angry==True):
 print('you are in trouble')
else:
 print('you are not in trouble')
```

you are not in trouble

In [39]:
```python
x=4
r=x%2
if r==0:
 print('number is even')
else:
 print('number is odd')
```

number is even

In [40]:
```python
x=5
r=x%2
if r==0:
 print('number is even')
else:
 print('number is odd')
```

number is odd

In [41]:
```python
a=10
if a>100 :
 print('Big')
else:
 print('Number')
```

Number

```
In [42]: a=101
         if a>100 :
          print('Big')
         else:
          print('Number')
```

Big

```
In [43]: n=15
         r=n%2
         if r==0:
          print('true')
         else:
          print('false')
```

false

```
In [44]: n=14
         r=n%2
         if r==0:
          print('true')
         else:
          print('false')
```

true

```
In [45]: a=5
         b=2
         c=3
         if a>=b and a>=c:
          print(a)
         elif b>=a and b>=c:
          print(b)
         elif c>=a and c>=b:
          print(c)
```

5

```
In [47]: a=int(input('1st number'))
         b=int(input('2nd number'))
         operator=int(input('enter the operator'))
         if(operator==1):
          print(a+b)
         elif(operator==2):
          print(b-a)
         elif(operator==3):
          print(a*b)
         else:
          print ('invalid')
```

50

```
In [ ]:
```

```
In [ ]:
```