

# Conditional Statements

if

if else

if elif else

nested if

```
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')
        print('How are you')
```

Hello  
How are you

```
In [4]: if False:
        print('How are you')
```

```
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')
```

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

Data Science

```
In [8]: if False:  
        print('Data Science')  
else:  
    print('Bye for now')
```

Bye for now

**write a python code to check whether given number is even or odd**

```
In [9]: num=int(input('Enter a number:'))  
  
if num%2==0:  
    print(num,'is even number')  
else:  
    print(num,'is odd number')
```

5 is odd number

```
In [10]: num= 6  
  
if num%2==0:  
    print(num,'is even number')  
if num%2!=0:  
    print(num,'is odd number')
```

6 is even number

## Nested IF

```
In [12]: x=3  
if x%2==0:  
    print('Even Number')  
    if x>5:  
        print('Greater Number')  
else:  
    print('Odd Number')
```

Odd Number

```
In [13]: x=4  
if x%2==0:  
    print('Even Number')  
    if x>5:  
        print('Greater Number')  
    else:  
        print('Smaller Number')  
else:  
    print('Odd Number')
```

Even Number  
Smaller Numer

```
In [14]: x=6
         if x%2==0:
             print('Even Number')
             if x>5:
                 print('Greater Number')
             else:
                 print('Smaller Numer')
         else:
             print('Odd Number')
```

Even Number  
Greater Number

## elif

```
In [15]: x=2
         if x==1:
             print('One')
         if x==2:
             print('Two')
         if x==3:
             print('Three')
         if x==4:
             print('Four')
```

Two

```
In [16]: x=2
         if x==1:
             print('One')
         elif x==2:
             print('Two')
         elif x==3:
             print('Three')
         elif x==4:
             print('Four')
```

Two

```
In [17]: 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

## Ternary Conditional Statement

```
In [18]: age=20  
s="Adult" if age>=18 else "Minor"  
print(s)
```

Adult

## Match case statement in python

```
In [19]: number=2  
match number:  
    case 1:  
        print("one")  
    case 2 | 3:  
        print("two or three")  
    case _:  
        print("Other Number")
```

two or three

```
In [20]: for i in range(5):  
    if i == 3:  
        continue  
    print(i)
```

0  
1  
2  
4

In [ ]:

In [ ]: