

The 'if' Statement

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#-----
# if STATEMENT : two-way
def CheckAnswer( attempt, answer ) :
    # Check if 'attempt' equals 'answer', and output an appropriate message
    if attempt == answer :
        print( "Yes, that's right" )
    else :
        print( "No, that's wrong" )

#-----
# if STATEMENT : one-way
def CheckBirthday( today, birthday ) :
    # Output a greeting if 'today' equals 'birthday'
    if today == birthday :
        print( "Happy Birthday to You !!!" )

#-----
# if STATEMENT : two-way, with multiple statements in each branch
def PrintMinMax( n1, n2 ) :
    # Output the minimum and maximum of the numbers 'n1' and 'n2'
    if n1 < n2 :
        print( "minimum =", n1 )
        print( "maximum =", n2 )
    else :
        print( "minimum =", n2 )
        print( "maximum =", n1 )

#-----
# if STATEMENT : multi-way
def PorridgeType( temperature ) :
    # A string describing the type of porridge with temperature 'temperature'
    if temperature > 60 :
        return "too hot"
    elif temperature < 40 :
        return "too cold"
    else :
        return "just right"

#-----
```

```
>>> CheckAnswer( 4, 2 + 2 )
Yes, that's right
```

```
>>> CheckAnswer( 5, 2 + 2 )
No, that's wrong
```

```
>>> CheckBirthday( "Sep 16", "Sep 16" )
Happy Birthday to You !!!
```

```
>>> CheckBirthday( "Sep 16", "Apr 25" )
```

```
>>> PrintMinMax( 24, 37 )
minimum = 24
maximum = 37
```

```
>>> PrintMinMax( 43, 16 )
minimum = 16
maximum = 43
```

```
>>> PrintMinMax( 25, 25 )
minimum = 25
maximum = 25
```

```
>>> PorridgeType( 65 )
'too hot'
```

```
>>> PorridgeType( 26 )
'too cold'
```

```
>>> PorridgeType( 53 )
'just right'
```