

# Unit IV

- **Spreadsheets**

# If condition

- **Check whether a condition is met, and returns one value if TRUE and another value if False**

```
=IF(logical_test, [value_if_true], [value_if_false])
```

# If condition

		$=IF(C2="Yes",1,2)$
	C	D
Active?	Activity Code	
Yes		1

- $=IF(C2="Yes",1,2)$

In the above example, cell D2 says: *IF(C2 = Yes, then return a 1, otherwise return a 2)*

# If condition

	A	B	C	D	E
1	Name	Type 1	Total	Grass Type	
2	Bulbasaur	Grass	318		
3	Ivysaur	Grass	405		
4	Venusaur	Grass	525		
5	Charmander	Fire	309		
6	Charmeleon	Fire	405		
7	Charizard	Fire	534		
8	Squirtle	Water	314		
9	Wartortle	Water	405		
10	Blastoise	Water	530		
11					

	A	B	C	D	E	F	G
1	Name	Type 1	Total	Grass Type			
2	Bulbasaur	Grass	318	=IF(B2="Grass", "Yes", "No")			
3	Ivysaur	Grass	405	IF(logical_test; [value_if_true]; [value_if_false])			
4	Venusaur	Grass	525				
5	Charmander	Fire	309				
6	Charmeleon	Fire	405				
7	Charizard	Fire	534				
8	Squirtle	Water	314				
9	Wartortle	Water	405				
10	Blastoise	Water	530				
11							

# If condition

	A	B	C	D	E
1	Name	Type 1	Total	Grass Type	
2	Bulbasaur	Grass	318	Yes	
3	Ivysaur	Grass	405	Yes	
4	Venusaur	Grass	525	Yes	
5	Charmander	Fire	309	No	
6	Charmeleon	Fire	405	No	
7	Charizard	Fire	534	No	
8	Squirtle	Water	314	No	
9	Wartortle	Water	405	No	
10	Blastoise	Water	530	No	
11					

# COUNTIF

- Counts a number of cell within a range that meet the given condition

	P	Q	R	S	T	U	V
1							
2	Yes	3					
3	Yes						
4	No						
5	No						
6	Yes						
7							

# COUNTIF

The screenshot shows a Microsoft Excel spreadsheet with the following data:

	A	B	C	D	E	J	K
1							
2							
3	a		5		AA	Count	3
4	b		4		AB		3
5	c		3		BB		3
6	d		5		AA		
7	e		4		AB		
8	f		3		BB		
9	g		5		AA		
10	h		4		AB		
11	i		3		BB		
12	j		2		BC		
13	k		1		CC		
14	l		0		FF		

# ROUND

=rou



ROUND



ROUNDDOWN



ROUNDUP



MROUND

Rounds a number to a specified number of digits

# ROUND

ROUND(number, num\_digits)

The ROUND function syntax has the following arguments:

- **number** Required. The number that you want to round.
- **num\_digits** Required. The number of digits to which you want to round the number argument.

# ROUND

Formula	Description	Result
=ROUND(2.15, 1)	Rounds 2.15 to one decimal place	2.2