ProjectCub!cle

Here's a cheat sheet for the AND function in VBA (Visual Basic for Applications):

```
**AND Function in VBA:**
```

The `AND` function in VBA is used to check multiple conditions and returns `True` if all the conditions are `True`, otherwise it returns `False`.

```
**Syntax:**

"'vba

result = condition1 AND condition2 AND ... AND conditionN

**Example:**

"'vba

Sub ExampleANDFunction()

Dim num1 As Integer

Dim num2 As Integer

Dim result As Boolean

num1 = 10

num2 = 5

' Check if both numbers are greater than 0

result = (num1 > 0) And (num2 > 0)

MsgBox "Result: " & result
End Sub
```

In this example, the `AND` function checks if both `num1` and `num2` are greater than 0. Since both conditions are met, the `result` will be `True`.

ProjectCub!cle

Notes:

- 1. You can use the `AND` function to combine multiple conditions.
- 2. Parentheses are used to group conditions to ensure the correct evaluation order.
- 3. The `AND` function returns `True` if all conditions are `True`, otherwise it returns `False`.

Remember, VBA is commonly used in Microsoft Office applications like Excel, Access, and Word to automate tasks and perform various operations using code. The `AND` function in VBA is a powerful tool for working with conditional logic and making decisions based on multiple conditions.

Example 1 - Filtering Data in a Table:

Assuming you have a table named "DataTable" with columns "Age" and "Salary", you can use the AND function to filter rows where both age is greater than 30 and salary is greater than 50000:

```
"`vba
Sub FilterTable()
    Dim tbl As ListObject
    Set tbl = ActiveSheet.ListObjects("DataTable")

tbl.Range.AutoFilter Field:=1, Criteria1:=">30", Operator:=xlAnd, Criteria2:=">50000"
End Sub
```

ProjectCub!cle

Example 2 - Conditional Formatting:

To apply conditional formatting based on multiple conditions in a table column, such as highlighting cells where both the value is greater than 50 and less than 100: "'vba

Sub ApplyConditionalFormatting()
Dim rng As Range
Set rng =

ActiveSheet.ListObjects("DataTable").ListColumns("Value").DataBodyRange

Example 3 - Custom Calculation:

You can use the AND function within your custom VBA code to perform actions based on multiple conditions. Here's an example of calculating a bonus if both sales are above a threshold and the employee is active:

```
Sub CalculateBonus()
Dim salesAmount As Double
Dim isActive As Boolean

salesAmount = 75000 ' Example sales amount
isActive = True ' Example employment status

If salesAmount > 50000 And isActive Then
bonus = salesAmount * 0.1 ' 10% bonus
MsgBox "Congratulations! Your bonus is: " & bonus
Else
MsgBox "No bonus applicable."
End If
End Sub
```