

Responsi /Tanggapan

Jobsheet

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KELAS : MIF 3A

MAKUL : Pemograman Visual

PERTEMUAN KE : 2

JOBSHEET : 1

RESPONSI/ TANGGAPAN/ RINGKASAN:

Tampilan Excel pada JobSheet 1

The screenshot shows a Microsoft Excel spreadsheet titled 'jobsheet 1.xlsm'. The data is sorted by column A (Ascending). The visible rows contain the following values:

	A	B	C	D	E	F	G	H	I	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD				
3	Urut Data																																
4		data awal data akhir																															
5		6	2																														
6		2	2																														
7		5	2																														
8		2	4																														
9		2	5																														
10		6	5																														
11		8	6																														
12		5	6																														
13		4	8																														

Untuk code makro yang mengurutkan data di rentang sel yang dipilih sebagai berikut

The screenshot shows the Microsoft Visual Basic for Applications (VBA) editor. The code is contained within a module named 'Module1' under the project 'VBAProject (jobsheet 1.xlsm)'. The code implements a sorting function named 'UrutData'.

```
'====='
' MACRO 1: URUTKAN DATA
'=====

Sub UrutData()
    Dim sel As Range

    ' Pastikan ada selection
    On Error Resume Next
    Set sel = Application.Selection
    On Error GoTo 0

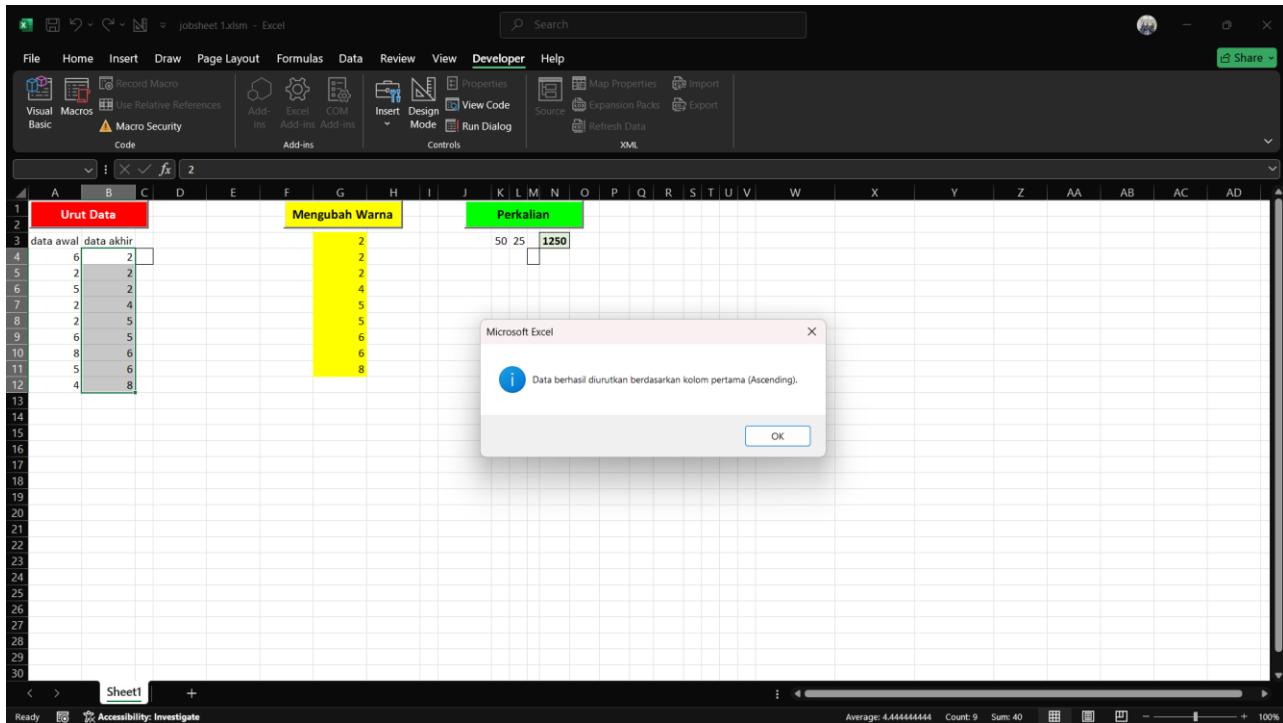
    If sel Is Nothing Then
        MsgBox "Silakan pilih rentang data terlebih dahulu.", vbExclamation
        Exit Sub
    End If

    ' -- BARU: cek apakah ada nilai di dalam range --
    If Application.WorksheetFunction.CountA(sel) = 0 Then
        MsgBox "Data tidak ditemukan.", vbExclamation
        Exit Sub
    End If

    ' Lakukan sorting
    With sel.Worksheet.Sort
        .SortFields.Clear
        .SortFields.Add Key:=sel.Columns(1),
                        SortOn:=xlSortOnValues,
                        Order:=xlAscending,
                        DataOption:=xlSortNormal
        .SetRange sel
        .Header = xlGuess      ' Excel otomatis mendetectsi header
        .Apply
    End With

    MsgBox "Data berhasil diurutkan berdasarkan kolom pertama (Ascending).", vbInformation
End Sub
```

Hasil dari Button yang telah kita berikan makro pengurutan data sebagai berikut



Code untuk mengubah warna table/kolom

```
1 ' -----
2 ' MACRO 2: UBAH WARNA KUNING
3 ' -----
4 Sub MengubahWarna()
5     On Error GoTo ErrorHandler
6
7     If TypeName(Selection) <> "Range" Then
8         MsgBox "Silakan pilih range sel terlebih dahulu!", vbExclamation, "Peringatan"
9         Exit Sub
10    End If
11
12    Dim selectedRange As Range
13    Set selectedRange = Selection
14
15    If selectedRange.Cells.CountLarge = 0 Then
16        MsgBox "Tidak ada range yang dipilih!", vbExclamation, "Peringatan"
17        Exit Sub
18    End If
19
20    If ActiveSheet.ProtectContents Then
21        MsgBox "Worksheet dalam keadaan protected! Silakan unprotect terlebih dahulu.", vbExclamation, "Peringatan"
22        Exit Sub
23    End If
24
25    If selectedRange.Cells.CountLarge > 10000 Then
26        If MsgBox("Anda akan mengubah warna " & Format(selectedRange.Cells.CountLarge, "#,##0") & " sel. " & _
27            vbCrLf & "Proses ini mungkin memakan waktu. Lanjutkan?", _
28            vbYesNo + vbQuestion, "Konfirmasi") = vbNo Then
29            Exit Sub
30        End If
31    End If
32
33    Dim screenUpdating As Boolean
34    screenUpdating = Application.screenUpdating
35    Application.screenUpdating = False
36
37    With selectedRange.Interior
38        .Pattern = xlSolid
39        .PatternColorIndex = xlAutomatic
40        .Color = RGB(255, 255, 0)
41        .TintAndShade = 0
42        .PatternTintAndShade = 0
43    End With
44
45    Application.screenUpdating = screenUpdating
46
47    MsgBox "Warna latar belakang berhasil diubah menjadi kuning!" & vbCrLf & _
48        "Jumlah sel yang diubah: " & Format(selectedRange.Cells.count, "#,##0"), _
49        vbInformation, "Sukses"
50    Exit Sub
51
52 ErrorHandler:
53     Application.screenUpdating = screenUpdating
54     Select Case Err.Number
55         Case 1004
56             MsgBox "Tidak dapat mengubah warna. Worksheet mungkin dalam keadaan protected.", vbCritical, "Error"
57         Case Else
58             MsgBox "Terjadi kesalahan saat mengubah warna: " & Err.Description, vbCritical, "Error"
59     End Select
60 End Sub
```

Hasilnya:

The screenshot shows a Microsoft Excel spreadsheet titled "jobsheet 1.xlsxm". The ribbon is visible at the top with tabs like File, Home, Insert, Draw, Page Layout, Formulas, Data, Review, View, Developer, and Help. The Home tab is selected.

The worksheet contains several rows of data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD							
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The cells A3, B3, C3, D3, E3, F3, G3, H3, I3, J3, K3, L3, M3, N3, O3, P3, Q3, R3, S3, T3, U3, V3, W3, X3, Y3, Z3, AA3, AB3, AC3, AD3 are highlighted in yellow. The cell A4 contains the value 6, B4 contains 2, C4 contains 2, D4 contains 2, E4 contains 5, F4 contains 2, G4 contains 2, H4 contains 5, I4 contains 6, J4 contains 5, K4 contains 2, L4 contains 5, M4 contains 6, N4 contains 6, O4 contains 8, P4 contains 5, Q4 contains 6, R4 contains 6, S4 contains 6, T4 contains 6, U4 contains 6, V4 contains 8, W4 contains 5, X4 contains 6, Y4 contains 6, Z4 contains 6, AA4 contains 4, AB4 contains 8, AC4 contains 6, and AD4 contains 8. The cell A1 is also highlighted in yellow.

A context menu is open over the range A3:AD3, showing options like Cut, Copy, Paste, Format Painter, and Insert. The cell A3 is selected.

A confirmation dialog box titled "Sukses" is displayed in the center of the screen, containing the message: "Warna latar belakang berhasil diubah menjadi kuning! Jumlah sel yang diubah: 9".

The status bar at the bottom shows: Ready, Accessibility: Investigate, Average: 4.444444444, Count: 9, Sum: 40, and a zoom level of 100%.

Code makro yang menambahkan kolom baru dengan rumus perkalian antara dua kolom yang ada

```
1 Sub Perkalian()
2     On Error GoTo ErrorHandler
3
4     If TypeName(Selection) <> "Range" Then
5         MsgBox "Silakan pilih range sel terlebih dahulu!", vbExclamation, "Peringatan"
6         Exit Sub
7     End If
8
9     Dim r As Range: Set r = Selection
10
11    If r.Cells.CountLarge = 0 Or r.Columns.count < 2 Then Exit Sub
12    If ActiveSheet.ProtectContents Then Exit Sub
13    If r.Areas.count > 1 Then Exit Sub
14
15    Application.screenUpdating = False
16    Application.calculation = xlCalculationManual
17
18    Dim c As Long: c = r.Column + r.Columns.count
19    Columns(c).Insert Shift:=xlToRight
20
21    ' header
22    With r.Parent.Cells(r.Row, c)
23        .FormulaR1C1 = "=RC[-" & r.Columns.count & "]*RC[-" & (r.Columns.count - 1) & "]"
24        .Font.Bold = True
25        .HorizontalAlignment = xlCenter
26        .Interior.Color = RGB(226, 239, 218)
27        .Borders.Weight = xlThin
28    End With
29
30    ' data
31    Dim i As Long
32    For i = r.Row + 1 To r.Row + r.Rows.count - 1
33        If IsNumeric(Cells(i, r.Column)) And IsNumeric(Cells(i, r.Column + 1)) Then
34            Cells(i, c).Value = Cells(i, r.Column).Value * Cells(i, r.Column + 1).Value
35            Cells(i, c).NumberFormat = "#,##0.00"
36        Else
37            Cells(i, c).Value = "N/A"
38            Cells(i, c).Font.Color = RGB(255, 0, 0)
39        End If
40        Cells(i, c).HorizontalAlignment = xlRight
41        Cells(i, c).Borders.Weight = xlThin
42    Next i
43    Columns(c).AutoFit
44
45    Application.screenUpdating = True
46    Application.calculation = xlCalculationAutomatic
47
48    MsgBox "Perkalian berhasil!", vbInformation
49    Exit Sub
50
51 ErrorHandler:
52     Application.screenUpdating = True
53     Application.calculation = xlCalculationAutomatic
54 End Sub
```

Hasilnya:

The screenshot shows a Microsoft Excel spreadsheet titled "jobsheet 1.xlsxm - Excel". The ribbon menu is visible at the top. The Home tab is selected. The formula bar shows the formula `=50*25`. The cell containing the result, K12, is highlighted with a green background and labeled "Perkalian". A small Microsoft Excel dialog box is displayed in the center, stating "Perkalian berhasil!" (Multiplication successful!). The data in the spreadsheet is as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE							
1	Urut Data				Mengubah Warna						Perkalian																											
2																																						
3	data awal		data akhir		2		2		2		4		5		5		6		6		6		8		8													
4	6		2		2		2		2		4		5		5		6		6		6		8		8													
5	2		2		2		2		2		4		5		5		6		6		6		8		8													
6	5		2		2		2		2		4		5		5		6		6		6		8		8													
7	2		4		2		2		2		4		5		5		6		6		6		8		8													
8	2		5		2		2		2		4		5		5		6		6		6		8		8													
9	6		5		2		2		2		4		5		5		6		6		6		8		8													
10	8		6		2		2		2		4		5		5		6		6		6		8		8													
11	5		6		2		2		2		4		5		5		6		6		6		8		8													
12	4		8		2		2		2		4		5		5		6		6		6		8		8													

The status bar at the bottom shows "Average: 37.5 Count: 2 Sum: 75".