

Can the “Exit Sub on Error” statement be used in VBA code?

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The "Exit Sub on Error" statement is a programming tool that can be utilized in VBA code to terminate the execution of a subroutine if an error occurs. This statement allows for efficient error handling, as it allows the program to exit a subroutine without executing any additional code. It is a useful feature for developers looking to streamline their error handling process and ensure that their code runs smoothly. However, it should be noted that the use of this statement may impact the overall functionality of the program and should be used carefully.

VBA: Exit Sub on Error

You can use the Exit Sub statement in VBA to exit a sub procedure when an error is encountered.

Here is one common way to use this statement in practice:

Sub DivideValues()

Dim i As Integer

On Error GoTo ErrorMessage

For i = 1 To 10

Range("C" & i) = Range("A" & i) / Range("B" & i)

Next i

Exit Sub

ErrorMessage:

MsgBox "An Error Occurred"

Exit SubEnd Sub

This particular macro attempts to divide each value in the range A1:A10 by the corresponding value in the range B1:B10.

If an error occurs (e.g. we attempt to divide by zero) then the On Error GoTo statement tells VBA to go to ErrorMessage, which says to produce a message box telling the user an error occurred and to end the sub procedure by using the Exit Sub statement.

The following example shows how to use this syntax in practice.

Example: How to Exit Sub on Error in VBA

Suppose we have the following list of values in columns A and B:

	A	B	C	D	E	F
1	10	2				
2	20	4				
3	30	10				
4	40	0				
5	50	50				
6	60	10				
7	70	5				
8	80	10				
9	90	15				
10	100	20				
11						
12						
13						
14						
15						
16						
17						

Now suppose we create the following macro to divide each value in column A by the corresponding value in column B and display the results in column C:

```
Sub DivideValues()
```

```
Dim i As Integer
```

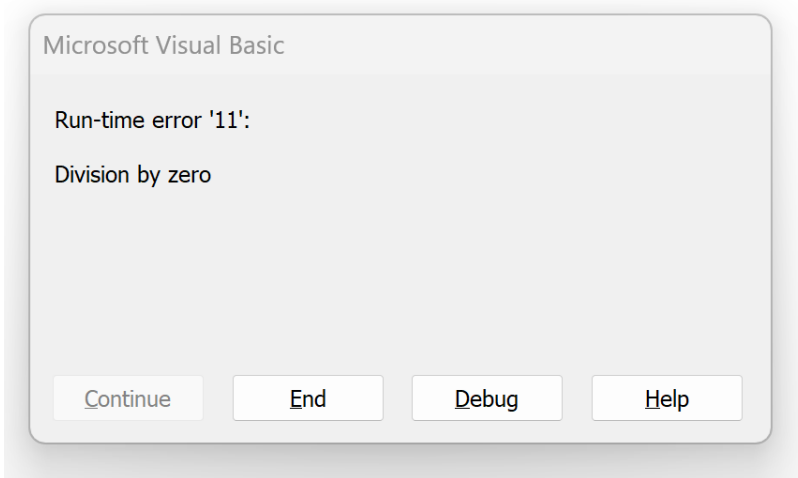
```
For i = 1 To 10
```

```
Range("C" & i) = Range("A" & i) / Range("B" & i)
```

```
Next i
```

```
End Sub
```

When we run this macro, we receive the following error:



We receive this error because in the fourth line of the Excel sheet we attempted to divide by zero.

If we'd like to simply exit the sub procedure when this error occurs, we can use the Exit Sub statement as follows:

Sub DivideValues()

Dim i As Integer

On Error GoTo ErrorMessage

For i = 1 To 10

Range("C" & i) = Range("A" & i) / Range("B" & i)

Next i

Exit Sub

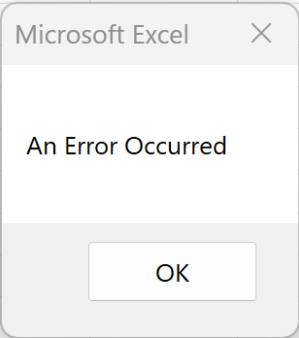
ErrorMessage:

MsgBox "An Error Occurred"

Exit SubEnd Sub

When we run this macro, the sub performs all of the division problems it can before it encounters an error and then a message box appears that tells us an error occurred and VBA simply exits the sub procedure:

	A	B	C	D	E	F
1	10	2	5			
2	20	4	5			
3	30	10	3			
4	40	0				
5	50	50				
6	60	10				
7	70	5				
8	80	10				
9	90	15				
10	100	20				
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Note: You can find the complete documentation for the

Exit statement in VBA .

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