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# Introduction to Microsoft MS Excel – Macros

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# Content :

Introduction to Macros

Introduction to visual basic application

Recording a Macro

Looking at the Code of Recorded Macro

A graphic with a dark green background and a pattern of small green dots in the top left corner. The text "WHAT IS MACROS IN EXCEL?" is written in a bold, white, sans-serif font. The graphic is partially overlapping a screenshot of an Excel spreadsheet, which shows a grid of cells and some text like "F", "Zo", "D", and "C".

***WHAT IS  
MACROS  
IN EXCEL?***

# Why Macros :

**If you have tasks in Microsoft Excel that you do repeatedly, you can record a macro to automate those tasks.**

# **Why Macros :**

**Excel in itself a tool which helps users to work with worksheets & workbooks with ease.**

**This tool is one of the ultimate timesaver, but there are numerous events when you have to do repetitive tasks which are of a very little value but consume your precious time; yet engage you in a less productive activity, which Excel may do automatically.**

**Microsoft Excel macro is the feature which eliminates or at-least minimize these events which take your precious time in repetitive tasks, and you will be able to capitalize this**

# What is Macros :

A macro is an action or a set of actions that you can run as many times as you want.

When you create a macro, you are recording your mouse clicks and keystrokes.

After you create a macro, you can edit it to make minor changes to the way it works.



***WHAT IS  
MACROS  
IN EXCEL?***

## Macros :

Suppose that every month, you create a report for your accounting manager.

You want to format the names of the customers with overdue accounts in red, and also apply bold formatting.

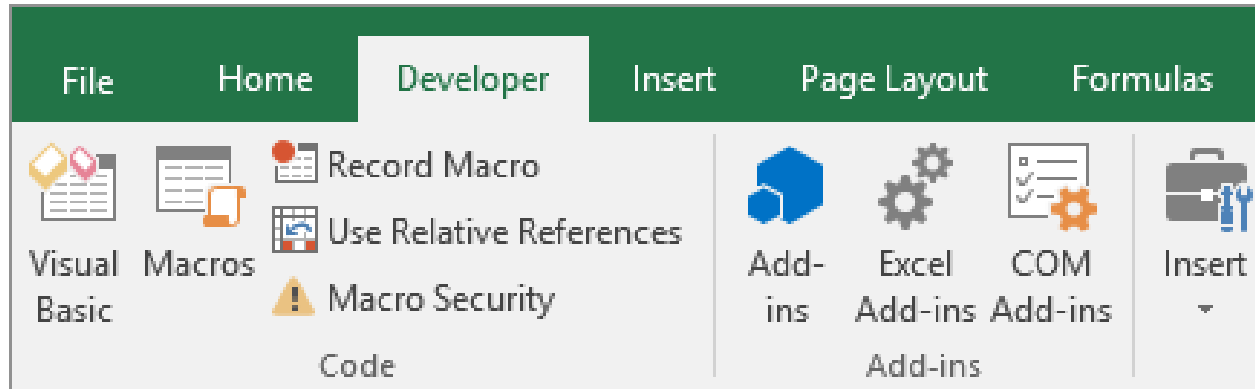
You can create and then run a macro that quickly applies these formatting changes to the cells you select.



***WHAT IS  
MACROS  
IN EXCEL?***

# How :

**Step 1 : Before you record a macro  
Macros and VBA tools can be found on the Developer tab, which  
is hidden by default, so the first step is to enable it.**



## How :

**Step 2 : In the Code group on the Developer tab, click Record Macro.**

**Step 3 : Optionally, enter a name for the macro in the Macro name box, enter a shortcut key in the Shortcut key box, and a description in the Description box, and then click OK to start recording.**





## How :

**Step 4 : Perform the actions you want to automate, such as entering boilerplate text or filling down a column of data.**

**Step 5 : On the Developer tab, click Stop Recording.**





# Exercise : Create A macro that will convert this CSV file into this fine table

	A	B	C
1	Aaradhya,Gupta,50000,30		
2	Advik,Patil,60000,35		
3	Anika,Sharma,75000,40		
4	Aryan,Desai,55000,28		
5	Dia,Patel,80000,45		
6	Ishan,Singh,65000,33		
7	Kavya,Chatterjee,70000,38		
8	Mihir,Mishra,60000,32		
9	Myra,Chopra,85000,42		
10	Navya,Rao,70000,36		
11	Parth,Shah,60000,31		
12	Prisha,Verma,55000,29		
13	Reyansh,Kumar,90000,48		
14	Saisha,Reddy,65000,34		
15	Shaurya,Gupta,75000,39		
16	Shreya,Sharma,70000,37		
17	Vihaan,Khan,80000,41		
18	Zara,Jha,60000,33		
19	Aahana,Banerjee,70000,38		
20	Advait,Chopra,65000,35		
21			

	A	B	C	D	E	F
1						
2	<b>Sr. No.</b>	<b>First Name</b>	<b>Last Name</b>	<b>Salary</b>	<b>Age</b>	
3	1	Aaradhya	Gupta	50000	30	
4	2	Advik	Patil	60000	35	
5	3	Anika	Sharma	75000	40	
6	4	Aryan	Desai	55000	28	
7	5	Dia	Patel	80000	45	
8	6	Ishan	Singh	65000	33	
9	7	Kavya	Chatterjee	70000	38	
10	8	Mihir	Mishra	60000	32	
11	9	Myra	Chopra	85000	42	
12	10	Navya	Rao	70000	36	
13	11	Parth	Shah	60000	31	
14	12	Prisha	Verma	55000	29	
15	13	Reyansh	Kumar	90000	48	
16	14	Saisha	Reddy	65000	34	
17	15	Shaurya	Gupta	75000	39	
18	16	Shreya	Sharma	70000	37	
19	17	Vihaan	Khan	80000	41	
20	18	Zara	Jha	60000	33	
21	19	Aahana	Banerjee	70000	38	
22	20	Advait	Chopra	65000	35	
23						

# Introduction to Visual Basic for Application :

## What is Visual Basic?

Visual Basic is a language which is inherited from a very popular language BASIC. BASIC stands for Beginners All- purpose Symbolic Instruction Code. Visual Basic is called visual as you can do most of the program by click and go i.e. visually. It's an event driven & object based language.



# **Introduction to Visual Basic for Application :**

**Visual Basic for Application Visual Basic for Application is called VBA as it uses Visual Basic language and is capable of using application specific objects i.e. if we talk about VBA for Excel it can use Cell Object, Range Object, Worksheet Object, Workbook Object etc.**



# Exercise :

## Step 1:

Order ID,Name,Product,Quantity,Price,Total	1= Convert The CSV file into Table
11280,Bill Smith,Volkswagen Golf,15,30000,450000	2= With Text To Columns
11281,Kennedi Singh,Toyota Yaris,10,25000,250000	3= Add Discount Column
11282,Harley Fritz,Seat Panda,150,28000,4200000	4= Do formatting And coloring
11283,Nyla Novak,Ford Focus,12,30000,360000	Create a Function to give Discount of 20 % if
11284,Ivan Hines,Vauxhall Corsa,20,30000,600000	5= Buying Quantiy more than 20
11285,Jonah Higgins,Volkswagen Polo,20,26000,520000	
11286,Jordan Boone,Kia Sportage,2,30000,60000	
11287,Kylee Townsend,Ford Fiesta,5,35000,175000	
11288,Nora Rollins,Seat Ibiza,80,30000,2400000	
11289,Brendan Walls,Renault Clio,100,26000,2600000	
11290,Steven Michael,Honda CR-V,20,35000,700000	
11291,Lucia Mckay,GMC Sierra,25,40000,1000000	
11292,Josue Roach,Seat Panda,10,28000,280000	
11293,Franklin Wright,Ford Focus,10,30000,300000	
11294,Denzel Flores,Vauxhall Corsa,5,30000,150000	
11295,Bruno Cordova,Volkswagen Polo,180,26000,4680000	
11296,Jaylynn Knapp,Kia Sportage,5,30000,150000	
11297,Bruce Rich,Ford Fiesta,250,35000,8750000	

## Step 2: Final

Function should be discount of 20 %

[illegible]

# **Conclusion:**

**Macros are used to automate tasks or you can use macros to develop user interfaces**

**Excel Macro use a language called VBA (Visual Basic for Applications), which is both Event Driven and Object Based  
The easiest way to look at macro is by using the Excel's record Macro Feature**

**You can even edit Excel's recorded macro by yourself**