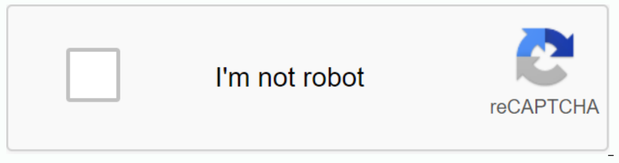

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Basic vba tutorial excel 2010 pdf

Everyone in this country should learn how to program a computer... Because it will teach you how to think. - Steve Jobsy is willing to spread Steve Jobs' wise words and say that everyone in the world should learn how to program a computer. You may not have to end up working as a programmer or writing apps at all but it will teach you how to think. In this tutorial, we are going to cover the following topics: What's a VBA? VBA stands for Visual Basic for Applications. Before we go into more detail, let's look at what computer programming is in a layman's language. Suppose you have a maid if you want the maid to clean the house and do the laundry. You tell him what to do using, let's say English and he'll do it for you as you work with a computer, you want to do certain tasks. Just as you told the maid to do housework, you can tell the computer to do things for you. The process of telling the computer what you want it to do for you is what is known as computer programming. As you use English to tell the maid what to do, you can also use English like statements to tell the computer what to do. Like statements, English fall into the category of high-level languages. VBA is a high level language that you can use to bend Excel to all your powerful. VBA is actually a sub-set of basic Visual 6.0 base stands for all-purpose beginners of symbolic training code. Why VBA? It uses English-like statements to write instructions creating an interface such as using a color app. You just have to drag, drop and align the graphical user interface control. Short learning curve. From the first day you start learning, you can start writing simple apps immediately. Enhance Excel functionality by allowing you to treat Excel the way you want it to personal use Personal & business applications from VBA in excelFor, you can use it for simple macros that automate many of your usual tasks. Read the article in macros to learn more about how you can achieve this. To use business, you can create powerful programs completed by Excel and VBA. The advantage of this approach is that you can leverage powerful Excel features in your custom applications. Basic visual for basicsBefore VBA applications we can write any code, we need to know the basics first. The following basics will help you get started. Variable – In high school we learned about algebra. Find (x+2y) where x = 1 and y = 3. In this phrase, x and y are variable. They can be assigned to any number 1 and 3, respectively, in this example. They can also change to say 4 and 2 respectively. Variables are briefly memory locations. As you work with VBA, you will need to declare the variable too just like in the algebra classes rules to create words variables Not used - if you work as a student, you can use the title or original teacher. These titles are reserved for school teachers and references. Is. Words are those words which have a specific meaning in Vba, and as such, you cannot use them as variable names. Variable names cannot contain spaces – you cannot define a variable called the first number. You can use firstNumber first_number. Use descriptive names - it's very tempting to name a variable after yourself but avoid this. Use descriptive names as one of quantity, price, subtotal etc. This VBA code makes it easy to read arithm operators - the rules of split parentheses multiplied and subtracted (BODMAS) applied to remember them when working with phrases that use multiple different account operators. Just like Excel, you can use + to add - to subtract * to multiply/ to split. Logical Operators – The concept of reasonably covered operators in previous tutorials also applies when working with VBA. This includes if statements or not and real FALSE enable developer option create a new workbook click on the start button ribbon select options click on the custom ribbon select Check Buck Developer as shown in the below screenshot Click Ok you will now be able to see the developer tab on the VBA Hi-worldNow ribbon we will show how to program in VBA. All programs in VBA should start and finish with the following ending. Here is the name you want to assign to your app. While the following stands for subroutine that we will learn in the next part of the tutorial. Sub-name() .. End SubWe will create a basic VBA application which will display an input box to ask for the user name then display a greeting message this tutorial assumes that you have completed the macros tutorial in Excel and have enabled the DEVELOPER tab in Excel. Create a new save workbook to save it in excel macro enabled worksheet format *.xlsm Click on the Developer tab click the Insert Drop down box under ribbon bar control select a command button as shown in the screenshot below draw command button anywhere on the sheet. Your job is to rename the macro name to btnHelloWorld_Click Click on new button you will get the following code window Enter the following instruction codes Dim name As String name = InputBox (Enter your name) MsgBox Hello + nameHERE, Dim name as String creates a variable called name. The variable accepts text, numeric and other characters because we have defined it as a string name =InputBox(enter your name) calls made in function InputBox which displays a window titled Enter your name. Then the entered name is saved in the name variable. MsgBox Hello + Name of calls made in the MsgBox function that displays Hello and the name is entered. The full code window you should now look at as below close the right-clicking code window on the 1 button and select Edit Text enter hi-click on say hello you will get the following input box to enter your name i.e. Jordan you will find the following message box, you just create your first VBA application in Excel. For example step by step from creating a simple EMI calculator in ExcelIn this training exercise, we are going to create a simple program that calculates EMI. EMI stands for Talesh Monthly Equals. This is the monthly amount that you repay when you have a loan. The following image shows the EMI calculation formula. The above formula is complex and can be written in Excel. Good news Excel now took care of the problem above. You can use the PMT function to calculate the above. The PMT function works as follows =PMT(rate,nper,pv)HERE, the rate of this rate is monthly. This interest rate divided by the number of payments per year nper it is the total number of payments. This term loan multiplies in the number of payments per year pv is the current value. Enter this actual loan value of create GUI using Excel cells as shown below add a command button between row 7 and 8 to the Macro name button btnCalculateEMI_Click by clicking the Edit button code under Dim monthly_rate as only, loan_amount as double, number_of_periods as only, emi as double monthly_rate = range(B6). Value / Range(B5). Value loan_amount = Range(B3). Value number_of_periods =Range(B4). Value * Range(B5). Value emi = WorksheetFunction.Pmt(monthly_rate, number_of_periods, -loan_amount) Range(B9). Value = emiHERE, Dim monthly_rate As Single,... Dim is the keyword used to define variables in VBA, monthly_rate variable name, single is the data type which means the variable will accept the number. monthly_rate = Range(B6). Value / Range(B5). Value range function used to access Excel cells from VBA, Range(B6). Value makes reference to value in worksheet B6. The Pmt(...) function worksheet function used to access all functions in Excel image below shows the full source code clicking on save and close your application's test code window as shown in the moving image below 2Step 1) under the Developer tab of the main menu, clicking the basic Visual icon to open it's your VBA editor. Step 2) Open it a VBA editor, from where you can select the Excel sheet where you want to run the code. Double-click the worksheet to open the VBA editor. Will open a VBA editor on the right side of the folder. It will appear like a white space. Step three) At this point we are going to see our VBA fist program. To read and display the program, we need an object. In VBA that object or medium in MsgBox. First, type Sub, and then write down the name of your app (Guru99) whatever you want to display on MsgBox (guru99-learning is fun)End app by End Sub Step 4) In the next step, you should run this code by clicking the Green Run button at the top of the editor menu. Step 5) When you run the code, another window comes out. Here you need to select the sheet where you want to display the program and click the Run button step 6) When you click the run button, the program will run. This msg is displayed on MsgBox. The above Excel code summary VBA stands for Basic Visual for the program. This is a sub-component of the visual basic programming language that you can use to create applications in Excel. With VBA, you can still use powerful Excel features and use them in VBA. Vba.