



AFCKS Technologies

Excel VBA/Macro Foundation (Level I)

Introduction

VBA is a language in which Macros are developed, There are many task which are repetitive, time consuming and error prone, these can be automated using VBA.

VBA is called gateway to IT, Many students get entry into IT after initially joining as a VBA Developer. VBA is also prerequisite for Python Programming course which itself if prerequisite for Data Science Course.

VBA is widely used and widely popular around the globe, therefore creating a continuous demand in the industry for skilled VBA Developers.

This course is designed in a way which enables students to absorb VBA programming skills in a step by step, goal oriented, systematic and digestible way.

You can find further explanation on <https://youtu.be/MWlljOIRkUQ>

Examples and Concepts Coverage

- 001 - Enter Value in Cell
- 002C - Linking Button with Macro
- 003C - Show Inputbox to get input from user and enter in cell
- 004C - Using Variable for storing and checking blank value using IF
- 005 - Show Message when First Name is blank
- 006C - Combine first and Last name and show in Message box
- 007C - Enter Multiple Values in Cells using Array
- 008C - Use if with or and Else and rearrange the code as per logic
- 009C - Enter Mr. or Ms. as per Gender and show wrong gender as Error
- 010C - Using IIF to make Male from M and Female from F
- 011C - Using Select case to simplify the code
- 012C - Get the Data count using WorksheetFunction Counta
- 013C - Making Range Row dynamic by Concatenating using Ampersand
- 014C - Get Lr using logic from bottom to top.
- 015C - Add data validation using List
- 016C - Add Data Validation List from Table Range (Address External)
- 017C - Design Userform with Dropdown, Save and Cancel Button with Properties, Show on Button Click
- 018C - Create Cancel Functionality
- 019C - Getting Last Column
- 020C - Saving Products and Months in Object Variable (Set, Object Variable)
- 021C - Reason for Declaring Object Variables, Constants Concept

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- 022C - Get Color from Internet and insert using RGB
- 023C - Using For Each Loop add Items to Combobox
- 024C - Private Variable declaration, Application.WorksheetFunction.Match
- 025C - Add Texbox to existing userform
- 026C - Enable user to proceed only when all Fields entered
- 027C - Refresh form after Submit using Unload and Show
- 028C - Create base Cell with Named Reference
- 029C - CurrentRegion, Resize for replacing Lr and Lc
- 030C - Start adding List from second item onwards
- 031C - Color Selected Product
- 032C - Set Data Region from Current Region and Clear Formats
- 033C - Color single cell on Month Click
- 034 - Rotate Arrow
- 035C - Change Shape Style and Rotate
- 036C - Used Application.Caller to get the Caller Name and Error Handling
- 037C - Sort on the basis of Arrow Click
- 038C - Sort on the basis of Dropdown Selection
- 039C - Sort on the Basis of Dropdown and Order on the basis of Option button
- 040 - Filter Data by West Region
- 041C - Show All Data
- 042C - Filter data from Region West and Sales greater than 5000
- 043C - Filter Sales between
- 044C - Filter data on the basis of User input in cells and also enter code in new line
- 045C - Filter Dates between a Data range
- 046C - Copy Current Region Visible cells to new sheet (SpecialCells, Sheet Add, Copy)
- 047C - Calling macro from other macros on the basis of condition
- 048C - Copy Filtered data to new sheet and Show all data in original Sheet
- 049C - Copy Filtered data to new book
- 050 - Create Table (List Object)
- 051C - Convert multiple tables to ListObject
- 052C - Unlist Table, Remove Background color, Use Error Sandwich
- 053C - Using LC to make Table creation dynamic
- 054C - Print All table Names in a Sheet
- 055C - Print All tables Address in a Sheet
- 056C - Give Names to all tables in Sheet from Cell Value (For Each Loop)
- 057C - Append tables one below another in a new sheet
- 058C - Paste Special Values one below another
- 059C - Copy only Data body range
- 060C - Enter Headings in first column
- 061C - Resize range as per paste area rows count
- 062C - Add Headings, Autofit Columns, Convert to Table,
- 063C - Create a Pivot table from data
- 064 - Get Full Path from Excel and Thisworkbook.Path
- 065C - Open workbook
- 066C - Set Workbook, Sheet, and Range in Variable and Copy Range

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- 067C - Copy data in existing book from other book
- 068C - Hiding Alerts
- 069C - ScreenUpdate false so that copy and paste becomes smooth
- 070C - Using Function to return FileName
- 071C - Add more content to Function so as to justify its usage
- 072C - Show File Open Dialog
- 073C - Finding whether user selected file or pressed cancel button
- 074C - Return the path selected by user in the UDF created
- 075C - Managing situation when user clicks on Cancel in FileDialog
- 076C - Show default path for Filedialog
- 077C - Enter Filedialog Title and change Button Name
- 078C - Enter required columns
- 079C - Copy Headers and Transpose, Argument Naming Concept
- 080C - Copy Selected data from other workbook
- 081 - On Button click List all Months one below another
- 082C - On Button click insert a Rectangle Shape
- 083C - Inserting Shapes one below another
- 084C - Inserting Text in Shapes
- 085C - Change Shape Alignment and Fonts with Nested With Concept
- 086C - Give names to Rectangle and Delete Month Buttons
- 087C - Display Button Name in Message Box also take care of Error if Macro is Executed Directly
- 088C - Show or Hide Month Buttons on Single Button Click
- 089C - Change the Shape Style, Use Macro Recorder to find the Style
- 090C - Show Month names on button click in Cells
- 091C - Using Collection to get Unique Months and Print it, Also Offset and Resize Concepts
- 092C - Return Collection from Function and modify the code, Concept of New
- 093 - All all Colored Cells in Collection
- 094C - Create buttons on the basis of Headers received in collection, based on Hamburger Position
- 095C - Insert and Delete Buttons on Hamburger Press
- 096C - Return Column Number on Button Click using Match Worksheet Function
- 097C - From ColNo get Unique items of that column using Collection
- 098C - Show in Messagebox all the unique items of that given column
- 099C - Extract Data of a given item using Advanced Filter
- 100C - Clean the Data, Autofit and Convert to table
- 101C - Implement Data Extract Code to Button Click Macro
- 102C - Move Sheets to new Book
- 103 - Print all Sheet names and All List Object Names within it
- 104C - Consolidate data assuming Input data is in Table Using Advanced Filter
- 105C - Consolidate data assuming Input data is in Range Using Advanced Filter
- 106 - Split Sheets into Files
- 107C - Consolidate data in single file using Functions with Arguments and Optional Arguments