**INSTRUCTIONS NOTES: AUTOMATION WITH VISUAL BASIC**

**FOR APPLICATIONS (VBA) IN MICROSOFT EXCEL**

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**@REFERENCE:** MICROSOFT. (2019). “GETTING STARTED WITH VBA IN OFFICE”. <https://docs.microsoft.com/en-us/office/vba/library-reference/concepts/getting-started-with-vba-in-office>; LAST ACCESSED: 20200613

**INSTRUCTIONS NOTES: AUTOMATION WITH VISUAL BASIC FOR APPLICATIONS (VBA) IN MICROSOFT EXCEL**

**1) FILE: SAVE AS**

Application.ActiveWorkbook.SaveAs ("New Name.xlsm")

**2) FILE: SAVE**

Application.ActiveWorkbook.Save

**3) CELL: SELECT**

Application.ActiveSheet.Range("A1").Select

Application.Selection.Value = "Kumusta!"

**4) CELL: SET VALUE and FORMAT**

Sub Macro1()

Worksheets(1).Range("A1").Value = "Kumusta!"

Worksheets(1).Range("A1").Borders(xlEdgeBottom).LineStyle = xlDouble

Worksheets(1).Range("A1").Interior.Color = vbGreen

Worksheets(1).Range("A1").Font.FontStyle = "Bold"

'Worksheets(1).Range("A1").NumberFormat = "0.00"

End Sub

**5) CONTAINERS: VARIABLES**

Dim sVariable As String

sVariable = "Kumusta!"

Worksheets(1).Range("A1").Value = sVariable

**6) CONDITIONS & BRANCHING**

Sub Macro1()

If Worksheets(1).Range("A1").Value = "Yes!" Then

Worksheets(1).Range("B1").Value = "LAUREL, MIKHAIL"

Else

MsgBox "Put Yes! in cell A1"

End If

Worksheets(1).UsedRange.EntireColumn.AutoFit

End Sub

**7) LOOPS & CONTAINERS**

Sub Macro2()

Dim inputWorksheet

Dim medicalDoctorContainer

Dim iMedicalDoctorContainerCount

Dim iColumnCount

Set inputWorksheet = ActiveWorkbook.ActiveSheet

Set medicalDoctorContainer = New Collection

iMedicalDoctorContainerCount = 1

iColumnCount = 2 'start at column B

For Each Column In inputWorksheet.Columns

sOutputWorksheetName = "" & inputWorksheet.Cells(1, iColumnCount).Value 'medical doctor name

medicalDoctorContainer.Add sOutputWorksheetName, CStr(iMedicalDoctorContainerCount)

MsgBox (medicalDoctorContainer(CStr(iMedicalDoctorContainerCount)))

iMedicalDoctorContainerCount = iMedicalDoctorContainerCount + 1

iColumnCount = iColumnCount + 1

If IsEmpty(inputWorksheet.Cells(1, iColumnCount).Value) Then

Exit For

End If

Next

End Sub