1. Graphical user interface, application, table, Excel

   Description automatically generated

**Complete "Solve This" Project Chapter 5: "Mobile Operating Systems: Changing Market Share"**

**Solve This**

**Operating Systems: Analyzing Market Share**

As a sector analyst for one of the regional banks, you are responsible for reviewing and analyzing data to determine trends. Your analyses are used by bankers to inform prospective and current clients of possible investment opportunities. Currently, you are looking at the market trends of operating systems and have obtained historical market share data for mobile/tablet operating systems in the U.S., global market share data for desktop and table operating systems, and market share data for all operating systems for select countries around the world. You will chart the data to determine trends.

|  |  |
| --- | --- |
| You will use the following skills as you complete this activity: | |
| * + Create an Area Chart | * + Add a Shape to a Chart |
| * + Create a Map Chart | * + Create a 2-D Pie Chart |
| * + Create Sparklines | * + Apply formats and filters to charts |

**Instructions**

* + Open [TIA\_Ch5\_Start](https://bb-montgomerycollege.blackboard.com/bbcswebdav/pid-8632404-dt-content-rid-170754857_1/xid-170754857_1) and save as TIA\_Ch5\_LastFirst.
  + Create a 2-D Area chart using data in the range A3:G7.

Hint: Charts are on the Insert tab in the Chart group. Click Insert Line or Area Chart.

* + Modify the chart as follows:
    1. Position the chart so it fills cells **J2:S19**
    2. Add a title: **Change in Mobile OS Market Share 2013-2018**. Place 2013-2018 on a separate line.

Hint: Place insertion point before 2013 and press Shift + Enter to place dates on separate line.

* + 1. Change the font size of 2013-2018 to **10**.
    2. Filter out the **Others**and**Windows** data so only AndroidandiOS data displays.

Hint: Use the Chart Filters icon (the Funnel) on the right of the chart. Uncheck Windows and Others. Click Apply.

* 1. Add a **Callout: Line shape** to the chart with the line pointing at the top of the orange area between 2014 and 2015.

Hint: Callout: Line is in the Callouts section in the Insert Shape group on the Format Chart Tools tab.

* 1. Add text to the callout: **Android Market Share Takes Off!**
  2. Format the callout with **Subtle Effect - Gold, Accent 4 Shape Style.**
  3. Create a **2-D Pie chart** using the ranges **A15:A21** and **G15:G21**.

Hint: Select A15:A21, then press the **Ctrl key** while selecting G15:G21.

* 1. Modify the chart as follows:
     1. Add a title: Operating System 2018 Global Market Share
     2. Use **Quick Layout 1** to add data % and Series data labels to each data point.

Hint: Quick Layouts are on the Chart Tools Design tab in the Chart Layouts group.

**c.**      Move the chart so it is on its own worksheet. Label the worksheet **Global OS.**

Hint: Use Move Chart on the Chart Tools Design Tab. Do not copy and paste.

* 1. On the Data worksheet, add a Column Sparkline to cell range **H16:H21**using the data in range **B16:G21**. Increase the width of column H to **12**.
  2. Create a Filled Map Chart from the data in ranges **A26:A39** and **D26:D39**. Place the chart to fill the range **I26:S45**. Add a title: **2018 Android Market Share by Country**
     1. Click **Chart Elements** and add **Data Labels**
  3. Save the document and submit based on your instructor’s directions.