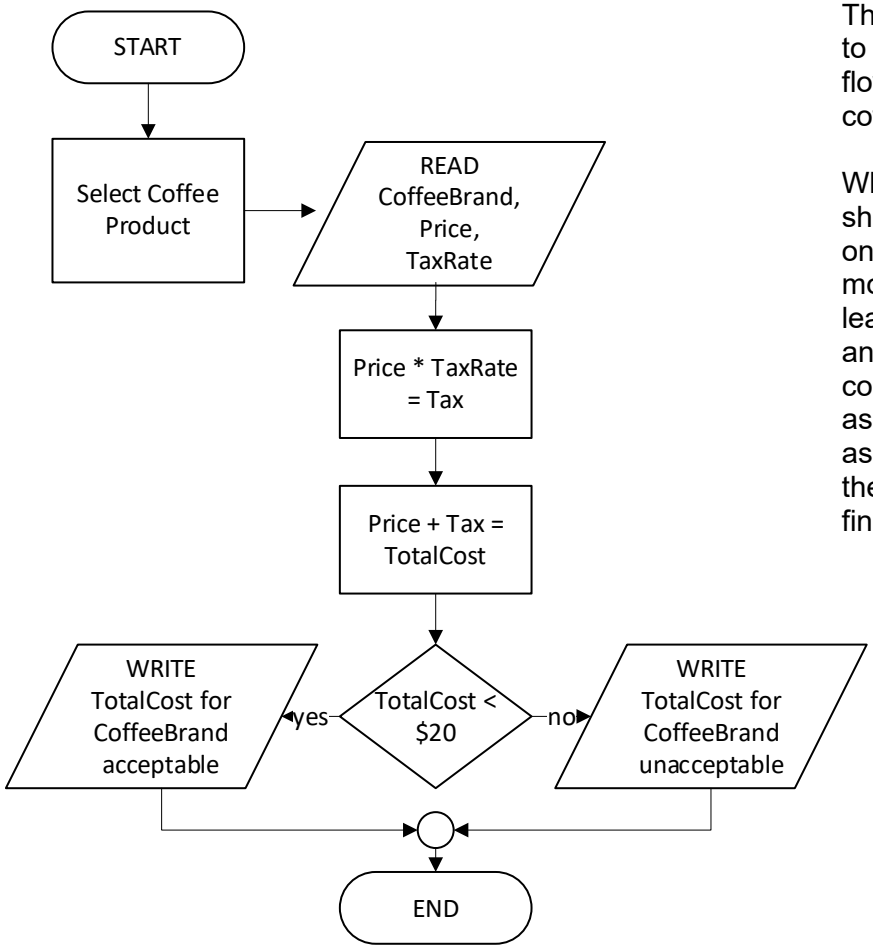
IT510: The Calculation Flowchart

A special help document

First step: Read through the Unit 3 PDF's flowchart examples to understand the processes.

Think of this as a “math problem” but in **formula** form. **Do *not* insert the actual prices or product names,** because you need to be able to calculate different pricings. (Do include the tax rate, however, as it is given to you and would be a constant.) In this example, a coffee purchase is calculated.



The READ information is **not** specific to the product; the idea is that this flowchart is usable no matter which coffee product is chosen.

What is shown here are the allowed shapes. You must have one start and one end, one READ, a decision, a monetary amount for a budget, and at least one WRITE. There must not be any "loose ends." It is fine for you to construct the output differently as long as you meet the needs of the assignment instructions, but note that the WRITE output must include the final cost.

For the table, you must figure out the “WRITE” results for two items. **Include the final prices**. You must calculate this, but do *not* "show your work," just the output. Coffee price calculations are shown here so you know how to connect final results to the WRITE output as declared in your diagram.

Coffee Dog brand sells for $15 a pound and the tax is 8%.

- Price * TaxRate = $1.20 Tax
- Price + Tax = $16.20 TotalCost
- This is less than $20, so the WRITE would be: **"$16.20 for Coffee Dog acceptable"**

Coffee Cat brand might be $18.99 a pound. Using the same tax rate:

- Price * TaxRate = $1.52 Tax
- Price + Tax = $20.51 TotalCost
- This is more than $20, so the WRITE would be: **"$20.51 for Coffee Cat not acceptable"**