Key Words to use while writing your Pseudocode

Communicating with the User

- **Ask User**: "*Question*"
- **Get**: *Variable that will contain answer*
    - Always follow-up an "Ask" with a "Get"

- **Tell User**: "*Statement*"
- **Tell User**: "Statement" + <variableName>
- **Tell User**: "Statement1" + <variableName> + "Statement2"

Performing a calculation

- **Calculate** or **Compute**: *value that needs to be calculated*
    - E.g. **Calculate**: Tax   or **Compute**: Grand Total
- Worksheet must also contain the **key formula** for the value be calculated
    - E.g. Tax = Sub-Total * Tax Rate
    - E.g. Grand Total = Sub-Total + Tax Amount

Branching – if-then-else

- **If** (*expression to be evaluated*)
    - Then:
        - do this
    - Else:
        - do that

Example:

- if (numberGrade < 64)
    - Then:
        - Status = 'Fail'
    - Else
        - Status = 'Pass'

Use "and", "or", "not" to combine or negate test conditions

- If: (purchaseType = "clothing") or (purchaseType = "food")
    - Then:
        - totalCost = Price
    - Else:
        - totalCost = Price + Tax
- Use **nested numbering** to denote the yes / true path vs. the no / false path.
    - Always put the yes / true path first, then the no path, E.g.

Key Words to use while writing your Pseudocode

- 1. If: Price > $100
  Then
    - **(Yes path)** 1.A Compute: Total = Price – (Price * Discount)
- Else
    - **(No path)** 1.B Compute: Total = Price

Branching – case / switch statements

- *Perform action **Based On** Variable*
    - o E.g. Set Price **Based On** Product-Selected
    - o E.g. Set Letter-Grade **Based On** Number-Grade
    - o E.g. Set Discount Amount **Based On** Day-of-the-Week
- Follow-up the above statement with a table showing the different applicable actions based on the value contained in the variable, including the "default" option if applicable,
    - o E.g. Set Price **Based On** Product-Selected

Product-Selected	Price
Shirt	$5
Pants	$25
Gloves	$10

    - o E.g. Set Discount Amount **Based On** Day-of-the-Week

Day-of-the-Week	Discount Amount
Tuesday	10%
Wednesday	10%
Thursday	10%
Default	0%

    - o E.g. Tell user what prize they've won **Based On** Number-Selected-By-User

Number-Selected-By-User	Tell User
1	"You have won a large prize"
2	"You have won a medium prize"
3	"You have won a small prize"
Default	"You have not won any prize"

Looping

- **For** counter=1 **up to** maxValue **Do**:
    - o Action to be repeated
- **For** counter = startValue **down to** 1 **Do**:
    - o Action to be repeated
- **While** (expression to be evaluated) **Do**:
    - o *Action to be repeated*