Intro to Programming

CURIE 2011

Variables

- Variables hold values
- Variables must be declared before putting values in them
- The size of the variable must be large enough to hold the value:
 - A bit-sized variable can hold a bit: 0-1
 - A byte-sized variable can hold a byte: 0-255
 - A word-sized variable van hold a word: 0-65535

Making Things Happen Over and Over...

- FOR...NEXT certain number of times
- DO WHILE while a certain condition is met
- DO ... UNTIL until a certain condition is met
- DO ... LOOP unconditionally repeat

Making Decisions

- IF ... THEN if a certain condition is met then do something
- ELSEIF if another condition is met
- ELSE in all other cases
- SELECT CASE certain situations
- Logic:
 - X > Y greater than
 - X < Y less than
 - X >= Y greater than or equal to
 - X <= Y less than or equal to
 - X <> Y not equal to
 - X AND Y both conditions must be met
 - X OR Y either condition must be met

Subroutines

- Do specific things
- Must be given a label or name
- Can be "called" by main program
- Control returns to main program, line after being called
- Allows same code to be used over and over
- Makes program more compact, shorter, more logical