Compound Comparisons
Other Operators

• Sometimes a simple comparison is not enough to determine if our criteria has been met.
• For example:
  – If a person wants to login to Facebook, the user name and the password both need to match.
• Another example:
  – For a person wants to watch a rated R movie, the person needs to be over 18 or guardian needs to be present.
• Yet another example:
  – A person is not on the authorized list of users, abort.
The And Operator

• The ‘and’ operator in C++ is denoted with the double & ampersand sign.
  – &&

• Example of usage:
  if ( age > 0 && age < 120 )
    //proceed with age conversion
The Or Operator

- The ‘or’ operator in C++ is denoted with the double `|` pipe symbol.
  - `||`
  - Pipe key is usually located above the enter key

- Example of usage:
  
  ```c++
  if ( age < 0 || age > 120 )
  //that is not a valid age
  ```
The Not Operator

• The ‘not’ operator in C++ is denoted with the ! exclamation symbol.
  – !
  – Same symbol as the ! in !=
• Example of usage:
  if ( !( number % 2 == 0 ) )
    //do something for odd numbers