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COMPUTER PROGRAMMING

DECISION INSTRUCTION - 1

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DECISION INSTRUCTION

- Relational and Logical Operators
- If Blocks
- Select Case Blocks



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Relational and Logical Operators

- ANSI Values
- Relational Operators
- Logical Operators
- Boolean Data Type



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Condition

 A condition is an expression involving relational and/or logical operators

 The value of the condition is Boolean – that is, True or False



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ANSI Character Set

A numeric representation for every key on the keyboard and for other assorted characters.

32 (space)	48 0	66 B	122 z
33 !	49 1	90 Z	123 {
34"	57 9	97 a	125 }
35 #	65 A	98 b	126 ~



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ANSI Character Set (continued)

A numeric representation for every key on the keyboard and for **other assorted characters**.

162 ¢	177 ±	181 µ	190 1⁄4
169 ©	178 ²	188 1/4	247 ÷
176 °	179 ³	189 1/2	248 ø

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Chr Function

For *n* between 0 and 255,

Chr(n)

is the string consisting of the character with ANSI value *n*.

Examples: Chr(169) is © Chr(162) is ¢



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Asc Function

For a string *str*, **Asc(str)**

is ANSI value of the first character of str. Examples: Asc("B") is 66 Asc("b") is 98



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Relational Operator

- Relational operators are binary they require an operand on both sides of the operator
- Value of a relational expression will always be True or False
 < less than
 - <= less than or equal to
 - > greater than
 - >= greater than or equal to
 - equal to
 - <> not equal to

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Boolean Expression

- An expression that evaluates to either True or False is said to have Boolean data type.
- Example:

The statement

Textbox1.Text = CStr((1 + 2) < 4) displays True in the text box.



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Example



3 is NOT less than 2 and so the value of the expression is **False**



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Logical Operators

Used with Boolean-valued expressions

- Not makes a False expression True and vice versa
- And will yield a True if and only if both expressions are True
- Or will yield a True if one of both expressions are True



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