1. A control structure is a logical design that controls the order in which a set of statements execute.
2. A decision structure allows a program to have more than one path of execution.
3. A single alternative decision structure provides only one alternative path of execution.
4. A Boolean expression is an expression that are tested by the if statement.
5. You can test two values to see if they’re equal, not equal, greater than, less than, greater than or equal to, or less than or equal to.
6. if y=20:

x=0

1. if sales >=10000

commissionRate=0.2

1. A dual alternative decision structure has two possible paths of execution.
2. You would use an if-else statement.
3. The program jumps to the statement that follows the if-else statement.
4. z is less than a
5. New York

Boston

1. if number ==1:

print(“One”)

elif number == 2:

print(“Two”)

elif number ==3:

print(“Three”)

else:

print(“Unknown”)

1. A compound Boolean expression is multiple Boolean expressions.
2. F,T,F,F,T,T,T,F,F,T
3. F,F,T,T,T
4. If the expression on the left side of the and operator is false, the expression on the right side will not be checked. The compound expression will be false if only one of the subexpressions is false. If the expression on the left side of the or operator is true, the expression on the right will not be checked. Only one of the expressions needs to be true.
5. if speed > 0 and speed < 200:

print(“The number is valid”)

1. if speed < 0 and speed > 200:

print(“The number is not valid”)

1. True and False
2. A flag is a variable that signals when some condition exists in the program.