Homework #8

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Assignment: Print how much each customers car is worth after rental for x amount of miles and days

**Debugging Exercises**

1. Code:

200 CALC-RTN.

IF AMT1 = 5400

ADD AMT2 TO TOTAL

ELSE

ADD 1 TO ERR-CT

WRITE OUT-REC FROM DETAIL-REC.

**Corrected Code:**

200 CALC-RTN.

IF AMT1 NOT = 5400

ADD AMT2 TO TOTAL

ELSE

ADD 1 TO ERR-CT

WRITE OUT-REC FROM DETAIL-REC.

1. Code:
2. IF AMT1 = AMT2

2. ADD AMT3 TO TOTAL.

3. ELSE

4. ADD AMT4 TO TOTAL.

* You get a syntax error because of the period ending at line 2 resulting in an unexpected else statement.

1. 1. Code:

IF A IS POSITIVE

PERFORM 900-GO-TO-IT.

* + Does not result in Syntax Error because it checks if the number has a negative sign or not and if the number does not include a negative sign, then it will execute the perform statement.
  1. Code:

IF A NOT EQUAL TO 6 OR A NOT EQUAL TO 7

PERFORM 800-RTN-X.

* + Does not result in Syntax Error because although “A” is alphanumeric it will still be accepted into the conditional statement even though it is being compared with a numerical literal. The perform 800 will be executed if “A” is not the number 6 or 7.
  1. Code:

IF B = 6

PERFORM 500-RTN5.

* + If “B” is not initialized, then the program will result in a syntax error for “B” not being defined in the code. If “B” was initialized as alphabetic in the PICTURE clause, then it would result in a runtime error since you can’t compare a numerical literal with an alphabetical field.

Questions and Notes

* Remember that the Evaluate expression exists and try not to use IF statement on input file fields, use Evaluate instead.