A screenshot of a computer

Description automatically generated with low confidence

LAB4.cbl:

IDENTIFICATION DIVISION.

PROGRAM-ID. LAB4.

AUTHOR. GAVIN GUERETTE.

ENVIRONMENT DIVISION.

CONFIGURATION SECTION.

INPUT-OUTPUT SECTION.

FILE-CONTROL.

SELECT PRNT-FILE ASSIGN TO UR-S-PRNT.

DATA DIVISION.

FILE SECTION.

FD PRNT-FILE.

01 PRNT-REC PIC X(125).

WORKING-STORAGE SECTION.

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\* LAYOUT PICTURE CLAUSE AND VALUE \*

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01 NUMARIC-EDITED-FIELDS.

05 DOLLAR-SIGNS PIC $$,$$$.$$.

05 ZERO-SUPPRESSED PIC ZZ,ZZZ.ZZ.

05 NEGATIVE-VALUE PIC ZZ,ZZZ.ZZ-.

05 CREDIT-VALUE PIC $$,$$$.$$CR.

05 DEBIT-VALUE PIC $$,$$$.$$DB.

05 ASTERISK-VALUE PIC $\*,\*\*\*.\*\*.

01 OTHER-FIELDS.

05 SMALL-ALPHA PIC X(3) VALUE SPACES.

05 SMALL-NUMERIC PIC S9(3) VALUE ZEROES.

05 LARGE-NUMERIC PIC S9(9) VALUE ZEROES.

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\* LAYOUT FOR THE DETAIL LINE OF REPORT PRINTING \*

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01 PRNT-DETAIL.

03 FILLER PIC X(2) VALUE SPACES.

03 PRNT-NUM PIC X(8) VALUE SPACES.

03 PRNT-CLAUSE PIC X(13) VALUE SPACES.

03 FILLER PIC X VALUE SPACES.

03 PRNT-VALUE PIC X(12) VALUE SPACES.

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\* LAYOUT FOR HEADING AND TABLE TITLE \*

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01 PRNT-HEADING.

03 FILLER PIC X(2) VALUE SPACES.

03 FILLER PIC X(5) VALUE 'LAB 4'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X VALUE '-'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X(12) VALUE 'PIC EXAMPLES'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X VALUE '-'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X(5) VALUE 'GAVIN'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X(8) VALUE 'GUERETTE'.

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\* LAYOUT FOR HEADING AND TABLE TITLE \*

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01 PRNT-TITLE.

03 FILLER PIC X(7) VALUE SPACES.

03 FILLER PIC X(7) VALUE 'PICTURE'.

03 FILLER PIC X VALUE SPACES.

03 FILLER PIC X(6) VALUE 'CLAUSE'.

03 FILLER PIC X(6) VALUE SPACES.

03 FILLER PIC X(6) VALUE 'VALUE'.

01 MISC.

05 CNVT-NUM PIC X(5).

PROCEDURE DIVISION.

000-MAINLINE.

OPEN OUTPUT PRNT-FILE.

PERFORM 1400-PRINT-HEAD.

PERFORM 1100-INITIALIZE-DATA.

MOVE '1.' TO PRNT-NUM.

PERFORM 1500-PRNT-DOLLARS.

MOVE '2.' TO PRNT-NUM.

PERFORM 1550-PRNT-ZERO-SUPPRESSED.

MOVE '3.' TO PRNT-NUM.

PERFORM 1600-PRNT-NEGATIVE-VALUE.

MOVE '4.' TO PRNT-NUM.

PERFORM 1650-PRNT-CREDIT-VALUE.

MOVE '5.' TO PRNT-NUM.

PERFORM 1700-PRNT-DEBIT-VALUE.

MOVE '6.' TO PRNT-NUM.

PERFORM 1750-PRNT-ASTERISK-VALUE.

MOVE '7.' TO PRNT-NUM.

PERFORM 1800-PRNT-SMALL-ALPHA-VALUE.

MOVE '8.' TO PRNT-NUM.

PERFORM 1850-PRNT-SMALL-NUMERIC-VALUE.

MOVE '9.' TO PRNT-NUM.

PERFORM 1900-PRNT-LARGE-NUMERIC-VALUE.

CLOSE PRNT-FILE.

\* MOVE '$$,$$$.$$' TO PRNT-CLAUSE.

\* MOVE DOLLAR-SIGNS TO PRNT-VALUE

\* WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

STOP RUN.

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\* MOVE DATA IN APPROPRIATE SPOTS \*

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1100-INITIALIZE-DATA.

MOVE 123.45 TO DOLLAR-SIGNS.

MOVE 123.45 TO ZERO-SUPPRESSED.

MOVE -123.45 TO NEGATIVE-VALUE.

MOVE -123.45 TO CREDIT-VALUE.

MOVE -123.45 TO DEBIT-VALUE.

MOVE 123.45 TO ASTERISK-VALUE.

MOVE "123.45" TO SMALL-ALPHA.

MOVE 123.45 TO SMALL-NUMERIC.

MOVE 123.45 TO LARGE-NUMERIC.

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\* FUNCTION FOR PRINTING HEADER \*

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1400-PRINT-HEAD.

WRITE PRNT-REC FROM PRNT-HEADING

AFTER ADVANCING PAGE.

MOVE SPACES TO PRNT-REC.

WRITE PRNT-REC

AFTER ADVANCING 1 LINES.

WRITE PRNT-REC FROM PRNT-TITLE.

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\* FUNCTION FOR PRINTING DOLLAR VALUES \*

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1500-PRNT-DOLLARS.

MOVE '$$,$$$.$$' TO PRNT-CLAUSE.

MOVE DOLLAR-SIGNS TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING ZERO SUPPRESSED \*

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1550-PRNT-ZERO-SUPPRESSED.

MOVE 'ZZ,ZZZ.ZZ' TO PRNT-CLAUSE.

MOVE ZERO-SUPPRESSED TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING NEGATIVE VALUE \*

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1600-PRNT-NEGATIVE-VALUE.

MOVE 'ZZ,ZZZ.ZZ-' TO PRNT-CLAUSE.

MOVE NEGATIVE-VALUE TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING CREDIT VALUE \*

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1650-PRNT-CREDIT-VALUE.

MOVE '$$,$$$.$$CR' TO PRNT-CLAUSE.

MOVE CREDIT-VALUE TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING DEBIT VALUE \*

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1700-PRNT-DEBIT-VALUE.

MOVE '$$,$$$.$$DB' TO PRNT-CLAUSE.

MOVE DEBIT-VALUE TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING ASTERISK VALUE \*

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1750-PRNT-ASTERISK-VALUE.

MOVE '$\*,\*\*\*.\*\*' TO PRNT-CLAUSE.

MOVE ASTERISK-VALUE TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING SMALL ALPHA VALUE \*

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1800-PRNT-SMALL-ALPHA-VALUE.

MOVE 'X(3)' TO PRNT-CLAUSE.

MOVE SMALL-ALPHA TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING SMALL NUMARIC VALUE \*

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1850-PRNT-SMALL-NUMERIC-VALUE.

MOVE 'S9(3)' TO PRNT-CLAUSE.

MOVE SMALL-NUMERIC TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.

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\* FUNCTION FOR PRINTING LARGE NUMARIC VALUE \*

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1900-PRNT-LARGE-NUMERIC-VALUE.

MOVE 'S9(9)' TO PRNT-CLAUSE.

MOVE LARGE-NUMERIC TO PRNT-VALUE.

WRITE PRNT-REC FROM PRNT-DETAIL AFTER ADVANCING 1 LINE.