CIS11 Project / Notes P1

(BASIC STRUCTURE OF THE CODE)

BASIC STRUCTURE

To read the data: Subroutine to read the five grades.

To make the calculations: Subroutine to calculate the maximum / Subroutine to calculate the minimum / Subroutine to calculate the average.

Converting number to letter: Subroutine to convert the number to letter according to the grading scale

Results / Output: Display the results in the console

POSSIBLE SUBRUOTINES

R_SCO: Will read the five user grades.

- Include loops

C_MIN, C_MAX, C_AVG: Will calculate minimum, maximum and average values of the grades stored in the array

CVT_LETT: Will convert the number into a letter

D_RES: Will display the calculated values (max, min avg) and the letters on the console

EXAMPLE

```
.ORIG x3000         ; START

LEA R0, SCORES      ; PREP FOR READING THE USER INPUT

JSR R_SCO           ; SR TO READ THE USERS GRADES / DATA
```

```
    JSR C_MIN            ; SR TO FIND THE MINIMUM VALUE

    JSR C_MAX            ; SR TO FIND THE MAXIMUM VALUE

    JSR C_AVG            ; SR TO CALCULATE THE AVERAGE VALUE

    JSR CVT_LETT         ; ST TO CONVERT NUMBER TO LETTER DEPENDING ON THE
GRADING SCALE

    JSR D_RES            ; DISPLAY THE RESULTS AND CALCULATED VALUES

    HALT                 ; STOP
```

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;DEFINITIONS OF THE SUB ROUTINES

END.   ; THE PROGRAM ENDS

EXTRA STUFF

- *1ST SR*
    + *LOOP*
    + *COUNTER .FILL #5   ; STARTING 5*
    + *SCORES .BLKW #5   ; SAVE 5 GRADES*
    + *TRAP x23*
- *2ND SR*
    + *LOOP*
    + *LOAD VALUE*
    + *COMPARE GRADES*
    + *SAVE IN ARRAY: "SCORES"*