

APPROACH:

1. DECIDE ON MAJOR FUNCTIONS FOR EACH PROGRAM

2. WRITE MAJOR FUNCTIONS IN PSEUDOCODE FOR EACH PROGRAM

EXAMPLE: MAIN DRIVER:

DISPLAY WELCOME MENU

UPON ANY PRESSED KEY DO:

 DISPLAY MAIN MENU

 PROMPT USER FOR UPDATE, LIST, INQUIRY, QUIT.

 EVALUATE REPLY

 WHEN UPDATE DO:

 DISPLAY A, C, D, OR R SCREEN

 PROMPT USER FOR A, C, D, OR R

 EVALUATE REPLY

 WHEN ADD DO:

 ...

 WHEN CHANGE DO:

 ...

 WHEN DELETE DO:

 ...

 WHEN RETURN DO:

 ...

 WHEN OTHER DO:

 WHEN LISTS AND REPORTS DO:

 DISPLAY LISTS AND REPORTS SCREEN

 PROMPT USER FOR CHOICE (L&R, R)

 EVALUATE REPLY

 WHEN LISTS AND REPORTS DO:

 WHEN RETURN DO:

 WHEN OTHER DO:

 WHEN INQUIRY DO:

 DISPLAY REQUEST FOR STOCK NUMBER

 PROMPT USER FOR CHOICE

 EVALUATE REPLY

 WHEN DO:

 WHEN OTHER DO:

 WHEN QUIT DO:

WHEN UPDATE DO:

 DISPLAY A, C, D, OR R SCREEN

 PROMPT USER FOR A, C, D, OR R

EVALUATE REPLY

WHEN ADD DO:

DISPLAY RECORD SCREEN FORMAT

ACCEPT USERS SCREEN INPUT

EVALUATE/VALIDATE ALL FIELDS

WHEN ANY FIELD INVALID DO:

A LITTLE MORE DETAIL:

WHEN ALL FIELDS VALID DO:

WHEN CHANGE DO:

DISPLAY SCREEN - REQUEST STOCK NUMBER

ACCEPT SCREEN INPUT

EVALUATE STOCK NUMBER

WHEN NOT NUMERIC DO:

WHEN NOT FOUND DO:

WHEN VALID DO:

DISPLAY RECORD ON SCREEN

...

WHEN DELETE DO:

DISPLAY SCREEN - REQUEST STOCK NUMBER

ACCEPT SCREEN INPUT

EVALUATE STOCK NUMBER

WHEN NOT NUMERIC

WHEN INVALID ...(NOT FOUND)

WHEN VALID DO:

DISPLAY ENTIRE FORMATTED REC

CONFIRM DESIRE TO DELETE

ACCEPT SCREEN INPUT

EVALUATE RESPONSE

WHEN ADELETE@ DO:

WHEN OTHER DO:

WHEN RETURN DO:

RETURN TO CALLER

WHEN OTHER DO:

ALLOW USER THREE ATTEMPTS. DO LOOP

AFTER THREE ATTEMPTS

DISPLAY MESSAGE

RETURN (TO NEXT HIGHER MENU)

END-UPDATE

MENU GUIDANCE

. HINTS/SUGGESTIONS COMING

- . NOT EXHAUSTIVE LIST BELOW; JUST A GUIDE
- . STRONGLY SUGGEST

PRELIMINARY / ARCHITECTURAL DESIGN:

- .. STUDY THE SPECIFICATIONS CAREFULLY ATTEMPTING TO FULLY UNDERSTAND THEIR MEANING. SEEK CLARIFICATION ANYTIME.
- .. STUDY THE FILE STRUCTURES
- .. STUDY THE TRANSACTIONS TO ENSURE A COMPLETE SET
- .. CREATE YOUR MENUS ON GRAPH PAPER OR OTHER MEDIA
- .. SKETCH OUT YOUR REPORT FILE FORMATS ON LAYOUT PAPER
 - .. PSEUDOCODE FUNCTIONS IN EACH PROGRAM FIRST
 - .. PSEUDOCODE PARAMETER PASSING BETWEEN PROGRAMS NEXT

DETAIL DESIGN / INITIAL TESTING

- .. PSEUDOCODE INDIVIDUAL PROGRAMS AND THEIR MODULES THIRD
- .. IMPLEMENT INCREMENTALLY STARTING WITH ESTABLISHING LINKAGE BETWEEN THE PROGRAMS. STUB THEM OUT.
- .. ENSURE LINKAGE IS VIABLE BY PASSING DUMMY PARAMETERS AND RETURNING DUMMY PARAMETERS.
- .. USE DISPLAY TO ENSURE PARAMETERS ARE PASSED / RETURNED PROPERLY
- .. DESIGN THE DETAILED LOGIC OF THE WELCOME MENU
- .. TEST AND ENSURE CORRECT.
- .. DESIGN THE DETAILED LOGIC OF MAIN MENU
- .. TEST MAIN MODULE WITH UPDATE MODULE (STUBBED OUT) USING GOOD DATA PASSED DOWN AND DUMMY DATA PASSED BACK
- .. CONTINUE.... BUT CONTINUE IMPLEMENTING AND TESTING AS YOU GO.....INCREMENTALLY.
- . MENUS ARE TO HAVE MENU NUMBERS RIGHT JUSTIFIED ON TOP LINE AS DESCRIBED IN HANDOUT. A000 WELCOME, B000 MAIN, B100 UPDATE, B200 LISTS & REPORTS, B300 INQUIRY, B110 ADD, ETC.

WELCOME MENU

- . SHOULD HAVE TITLE OF SYSTEM ON IT, CENTERED, ATTRACTIVE.
- . SHOULD WELCOME USER TO THE SYSTEM