Review 6

Command programming

***Rewriting the DSPSYSVAL Command***

Part 1: CL Programming (worth 15 marks)

The CL program uses the display file, DSPUSRDF. DSPUSRDF has the following DDS code:

|  |
| --- |
| .AAN01N02N03T.Name++++++RLen++TDpBLinPosFunctions++++++++++++++++++  \*\*\*\*\*\*\*\*\*\*\* Beginning of data \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  A DSPSIZ(24 80 \*DS3)  A R RECORD1 CF04(04)  A 2 30'Display User Profile'  A OUTPUT 60 O 4 28 |

Write a CL Program (DSPUSRCL) that accepts the following as parameters:

1. An 8 character field designed to hold the requested system value – either STGUSED or INLPGM
2. An 8 character field designed to hold the display method – either \*DISPLAY or \*MSGLINE

Please note that storage used(STGUSED) is a 15 digit number and the initial program to call(INLPGM) is a 10 character string.

If STGUSED is passed into the program, then the storage used should be retrieved from the current user profile. If the display method is \*DISPLAY, then record1 should be displayed with the result. If the display method is \*MSGLINE, then a message should be sent to the calling program with the result.

If INLPGM is passed into the program, then the initial program to call should be retrieved from the current user profile. If the display method is \*DISPLAY, then record1 should be displayed with the result. If the display method is \*MSGLINE, then a message should be sent to the calling program with the result.

Be sure to comment your code!

CL Programming Continued

Command programming (worth 5 marks)

|  |
| --- |
| Display User Profile    Type choices, press Enter.    USER PROFILE ATTRIBUTE : \_\_\_\_\_\_ STGUSED, INLPGM  HOW TO DISPLAY: . . . . \*MSGLINE \*DISPLAY, \*MSGLINE |

Write the command source code to create the above command entry screen.

Command entry definitions consist for Command Definitions (CMD) and Parameter Definitions (PARM). Here’s the syntax for both:

|  |  |
| --- | --- |
| Command Definition (CMD)  Prompt text or message ID . . PROMPT>\_\_\_\_\_\_  Text 'description' . . . . . . TEXT >\_\_\_\_\_\_  Maximum positional parame . MAXPOS > \_\_\_\_\_\_  Where allowed to run . . . . ALLOW > \_\_\_\_\_\_\_  Mode in which valid . . . . MODE > \_\_\_\_\_\_\_ | Parameter Definition (PARM)    Keyword . .. . . . KWD > \_\_\_\_\_\_  Type of value . . . TYPE> \_\_\_\_\_\_  Value length . . . LEN > \_\_\_\_\_\_  Restricted Values . RSTD> \_\_\_\_\_\_  Default value . . .DFT > \_\_\_\_\_\_  Valid values . . VALUES > \_\_\_\_\_\_  Prompt specifications: PROMPT> \_\_\_\_\_\_ |

**CL commands and Syntax:**

|  |  |  |  |
| --- | --- | --- | --- |
| Command | Parameter keyword(s) | Command | Parameter keyword(s) |
| ADDLIBLE | LIB POSITION | RCVF | DEV RCDFMT OPNID WAIT |
| CALL | PGM PARM | RMVLIBLE | LIB |
| CALLPRC | PRC PARM RTNVAL | RTVJOBA | DATE USER |
| CHGCURLIB | CURLIB | RTVSYSVAL | SYSVAL RTNVAR |
| CHGLIBL | LIBL CURLIB | RTVUSRPRF | RTNUSRPRF TEXT MAXSTG STGUSED PWDEXPITV OUTQ OUTQLIB INLPGM |
| CHGVAR | VAR VALUE | RUNQRY | QRY QRYFILE OUTTYPE  OUTFORM RCDSLT |
| DCL | VAR TYPE LEN VALUE | RVKOBJAUT | OBJ OBJTYPE ASPDEV  USER AUT AUTL |
| DCLF | FILE RCDFMT OPNID | SELECT |  |
| DO |  | SNDMSG | MSG TOUSR |
| DOFOR | VAR FROM TO BY | SNDUSRMSG | MSGRPY |
| DOUNTIL | COND | SELECT |  |
| DOWHILE | COND | SNDMSG | MSG TOUSR |
| DSPMSG |  | SNDPGMMSG | MSG |
| DSPSPLF | SPLNBR(\*LAST) | SNDRCVF | DEV RCDFMT OPNID WAIT |
| EDTOBJAUT | OBJ OBJTYPE ASPDEV | SNDUSRMSG | MSG MSGID MSGF MSGDTA VALUES MSGTYPE  TOMSGQ TOUSR MSGRPY |
| EDTLIBL |  | WHEN | COND THEN |
| ELSE | CMD | WRKOUTQ | OUTQ |
| ENDDO |  | WRKSPLF |  |
| ENDPGM |  |  |  |
| ENDSELECT |  |  |  |
| GOTO | CMDLBL | String Handling |  |
| GRTOBJAUT | OBJ OBJTYPE ASPDEV  USER AUT AUTL REFOBJ REFOBJTYPE REFASPDEV  REPLACE | %SST(&FIELDA offset length)  &STRINGA \*CAT &STRINGB  &STRINGA \*BCAT &STRINGB  &STRINGA \*TCAT &STRINGB |  |
| IF | COND THEN | Indicators | &IN03 |
| MONMSG | MSGID CMPDTA EXEC |  |  |
| PGM | PARM |  |  |
| OTHERWISE | CMD |  |  |
| OVRDBF | FILE TOFILE LVLCHK |  |  |
| OVRPRTF | FILE SPLFNAME |  |  |

**RPG Verbs, Functions and Special Values**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RPG | Attribute | RPG | Attribute | RPG | Attribute |
| %EOF | File Name | \*ENTRY |  | RENAME(recordformat:newformat) | |
| DOU | Condition | PLIST |  |  |  |
| DOW | Condition | PARM |  | %TRIMR | fieldname |
| ENDDO |  | \*IN03 |  |  |  |
| ENDIF |  | EXSR |  |  |  |
| ENDSL |  | BEGSR |  |  |  |
| EXFMT | Record name | ENDSR |  |  |  |
| IF | Condition | \*INLR = \*ON |  |  |  |
| OTHER |  | OFLIND(\*INOF) |  |  |  |
| READ | File Name | WRITE | Record name |  |  |
| SELECT |  | WHEN | Condition |  |  |