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 user profile 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!

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)                  Parameter Definition (PARM)
Prompt text or message ID  . . PROMPT>_____
Text 'description' . . . . . . TEXT  >_____    Keyword  . . . . . . KWD > _____
                                                Type of value . . . TYPE> _____
Maximum positional parame  . MAXPOS > _____    Value length .  . . LEN > _____
Where allowed to run . . . . ALLOW  > _____   Restricted Values . RSTD> _____
Mode in which valid  . . . . MODE   > _____   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		