

JCL EXERCISES – Level 4

JOB CONTROL LANGUAGE

This exercise is aimed at providing knowledge on the special data sets and condition parameters in JCL. You are requested to have this exercise beside you when you are on a terminal connected to a Z/OS system and make use of this in your practical session strictly in the sequence of steps given.

You will be provided with a Mainframe ID and Password, the ID will be TRYXXX where Y need to be replaced with **A** by Ahmedabad team, **C** by Chennai Team, **H** by Hyderabad Team and **T** by Trivandrum Team. XXX will vary from 001 to 540

1. Case Study 1

A. Write a JCL to execute two COBOL programs by specifying the load library in the JOBLIB DD statement.

Step1 : Execute the program JOBDemo

Step2 : Execute the program SDEMO1

Both the programs are present in the library TRG1T.ILP.LOADLIB.

B. Write a JCL to execute two programs by specifying the load library in the STEPLIB DD statement for each step.

Step1 : Execute the program SDEMO1

The program is present in TRG1T.ILP.LOADLIB.

Step2 : Execute the program SDEMO2

The program is present in TRG1T.ILP.JCLCASE.LOADLIB

Check what happens if JOBLIB is given instead of STEPLIB.

In case both the STEPLIB and JOBLIB are specified, which will take higher precedence.

2. Case Study 2

Create 3 PS files using ISPF utility 3.2 and manually insert some data into the files.

Write a JCL using IEBGENER utility to copy the content from the above mentioned concatenated data sets to an output data set .

The syntax for concatenating the data sets is as given below:

```
// SYSUT1 DD DSN=TRTXXX.CONCAT.FILE1,DISP=SHR
//          DSN=TRTXXX.CONCAT.FILE2,DISP=SHR
//          DSN=TRTXXX.CONCAT.FILE3,DISP=SHR
```

3. Case Study 3

Write a JCL with the following two steps.

Step 1: Using IEBGENER, copy the below given in-stream data into a temporary data set.

The DD statement for the temporary data set should be given as :
 //SYSUT2 DD DSN=&&TEMP,DISP=PASS (Any name can be given instead of TEMP
 and DISP should be PASS)

Step 2: Using IEBGENER again, copy the data from the temporary data set given in step 1 to a PS file.

Once the job is submitted and executed successfully, check whether the temporary data set is created or not.

4. Case Study 4

Copy the sample JCL named: **JCL4** from TRG1T.ILP.JCLCASE (or) refer **Appendix A**.

The program RUNRC should give the return codes as per the following table:

Data to be passed in SYSIN card	Return Code
0000	0
0001	4
0002	8
0003	Abend

The SYSIN card in the JCL should contain the values given in the Table above. All the Return Codes must be checked by giving the appropriate value in the SYSIN data.

CASE	STEP 2	STEP 3	STEP 4	RC	EXECUTION	SYSIN	RC	EXECUTION
	RC	EXECUTION	SYSIN					
CASE 1	0000	0	YES	0001	4	YES	----	-
CASE 2	0000	0	YES	0000	0	YES	----	-
CASE 3	0002	8	YES	-----	-	NO	----	-

The values of SYSIN card of STEP2 should be set to match the return code specified in the table.

Give Condition statement in STEP3 and STEP4 such that execution of STEP3 and STEP4 occurs according to the table given above.

APPENDIX A

Please find the sample jcl in the below link,

TRG1T.SAMPLE.JCL(CASE)