Preparation | Newly Learnt in JCL Udemy

File Edit View

1.Uploading file into JCL.
2.Inner Join using SORT Utility.
3.Left-Outer Join using SORT Utility.
4.Right-Outer Join using SORT Utility.
5.Full-Outer Join using SORT Utility.
6.Getting UNPAIRED records from only one file.
7.Getting UNPAIRED records from Both the files.
8.Create Multiple Copies of a Dataset using SORT utility.
9.Splitting a Dataset into Equal Parts using SORT utility.
10.IEBCOMPR - Used for Comparing Datasets.
11.IEHLIST - List contents of PDS or VTOC.
12.IEBPROGM - Used to delete and uncatlg datasets and members of datasets.
13.IEBEDIT - Used to copy JOB from other JOBS.
14.IEBPTPCH - Used to Print the Datasets (PS or PDS).

Paired --> Same
Unpaired --> Not-same

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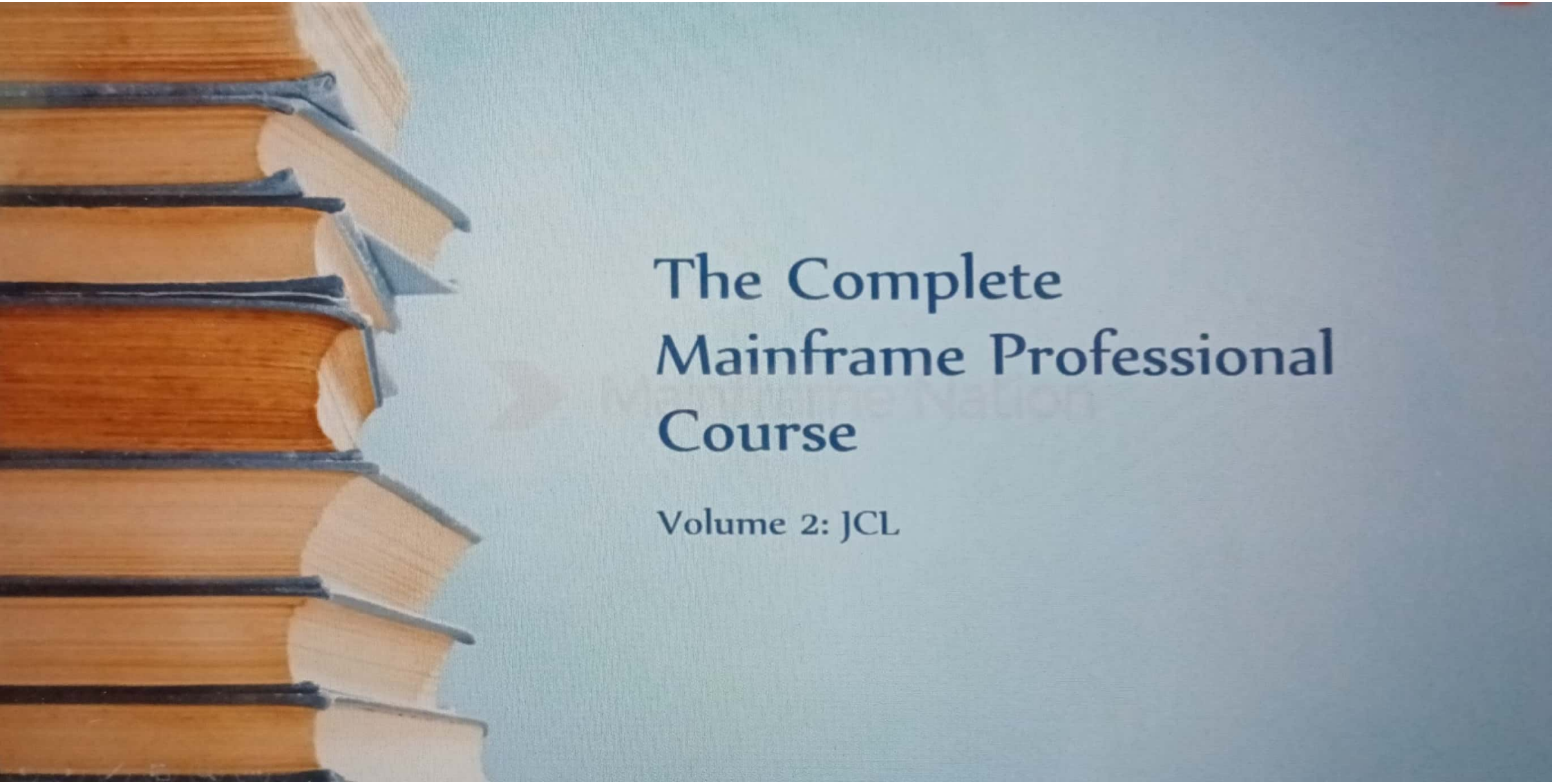

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: Batch Processing

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Summary

- "Batch processing" is the execution of a series of program without manual intervention.
- Run during a Batch window.
- A "Batch window" is the time slot of less intensive online activity.
- Examples of Batch processing :

1) Monthly bank statements
2) Daily image watermarking, compression.
3) File conversion from one format to another in the database.

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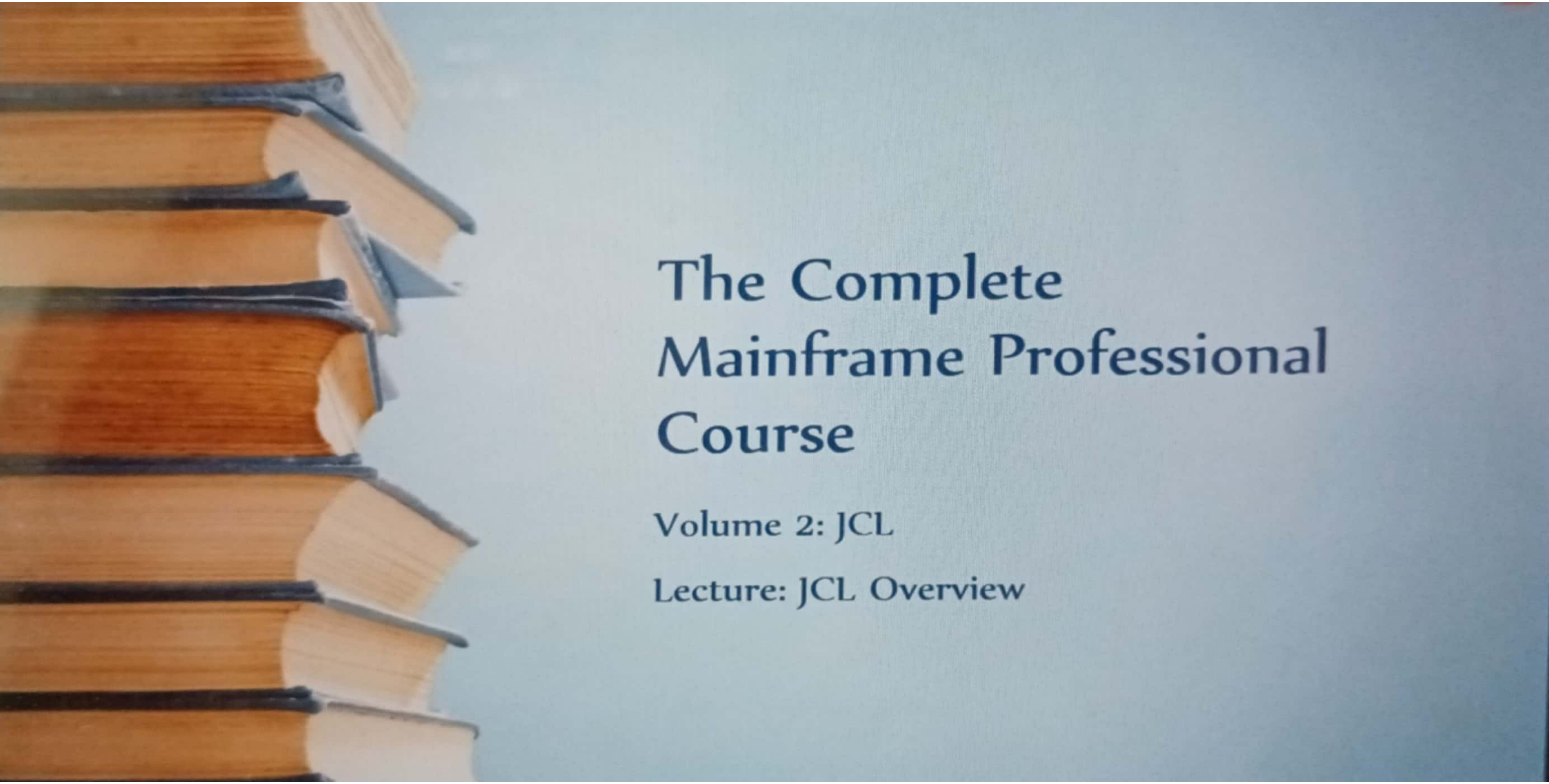

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Summary

- "JOB CONTROL LANGUAGE" is used to submit jobs to the system, A JOB is one unit of work.
- JCL consists of statements and their parameters.
- There are three types of statements:
  JOB, EXEC, DD
  and two types of parameters:
  Positional, Keyword

- JOB statement specifies the information of the job.
- EXEC specifies the program to use.
- DD specifies the files to use in the job.

- Positional parameter should be coded in specified order and position.
- Keyword parameter can appear in any order.

- JCL is useful to run the Batch processes.

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: JCL Syntax

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Summary

- JCL must be written in a dataset of record length 80.
- JCL must be written in Uppercase.
- Syntax of a JCL is

//Namefield Operand Parameters

Namefield is maximum of 8 characters
Operand can be JOB, EXEC or DD
Parameters can be Positional or Keyword, parameters are separated by commas

- // is the start of every line
- //* is a comment
- /* is the end of JCL

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: JOB Statement

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JOB Statement

- Job Statement is also known as JobCard.
- A JOB statement is the first statement in any JCL code.
- It marks the start of a job and gives the name of the job.
- Syntax of JOB statement is

```
//Jobname JOB Parameters
```

- Jobname must be 1-8 characters long.
- Jobname must be coded from position 3.
- First character of Jobname must be either alphabetic or national character.

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JOB Statement

Parameters in JOB Statement

Positional Parameters	Description
Accounting Information	• It refers to the person or group to which the CPU time is owed. • It is system specific • It is not mandatory • If absent it should be replaced with comma indicating its absence
Programmer name	• The person or group who owns this JCL • It is not mandatory

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JOB Statement

Parameters in JOB Statement

Keyword Parameters	Description
CLASS	• Jobs similar in some aspect are grouped together in one class • CLASS = 0 to 9 | A to Z
PRTY	• Specifies the priority of the job within a class • PRTY = 0 to 15
TIME	• Maximum time allocated for the job execution • TIME=(mm, ss) or TIME=ss
MSGCLASS	• specifies the output destination for the Job messages • MSGCLASS = 0 to 9 | A to Z
MSGLEVEL	• Specifies the type of messages to be written to the output • MSGLEVEL = (STATEMENT, MSG) • STATEMENT = 0, Job statements only. = 1, JCL along with symbolic parameters expanded. = 2, JCL only. • MSG = 0, Messages written only on abnormal termination = 1, Messages written irrespective of normal/abnormal termination.

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JOB Statement

Parameters in JOB Statement

Keyword Parameters	Description
TYPRUN	• Specifies a special processing of the job • TYPRUN = SCAN | HOLD • TYPRUN = SCAN checks the syntax errors of the JCL without executing it. TYPRUN = HOLD puts the job on HOLD in the job queue, and can be later executed if required.
NOTIFY	• Specifies the user to be notified on completion of the JOB • NOTIFY = "userid | &SYSUID"
REGION	• Specifies the amount of address space to be allocate for job execution • REGION = nK | nM

- When a parameter is omitted it takes up the default system value, which was defined by the system administrator.

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Summary

- Job Statement also known as JobCard is first statement in a JCL code.
- It marks the start of a job and gives the name of the job.
- Syntax of JOB statement is

  //Jobname JOB Parameters

- Jobname must be 1-8 characters long and must be coded from position 3.
- First character of Jobname must be either alphabetic or national character.

- Job Statement Parameters are :

1. Positional Parameters: Accounting Info an Programmer name.
2. Keyword Parameters: CLASS, PRTY, NOTIFY, MSGCLASS, MSGLEVEL, TYPRUN, TIME, REGION

- When a parameter is omitted it takes the default system value.

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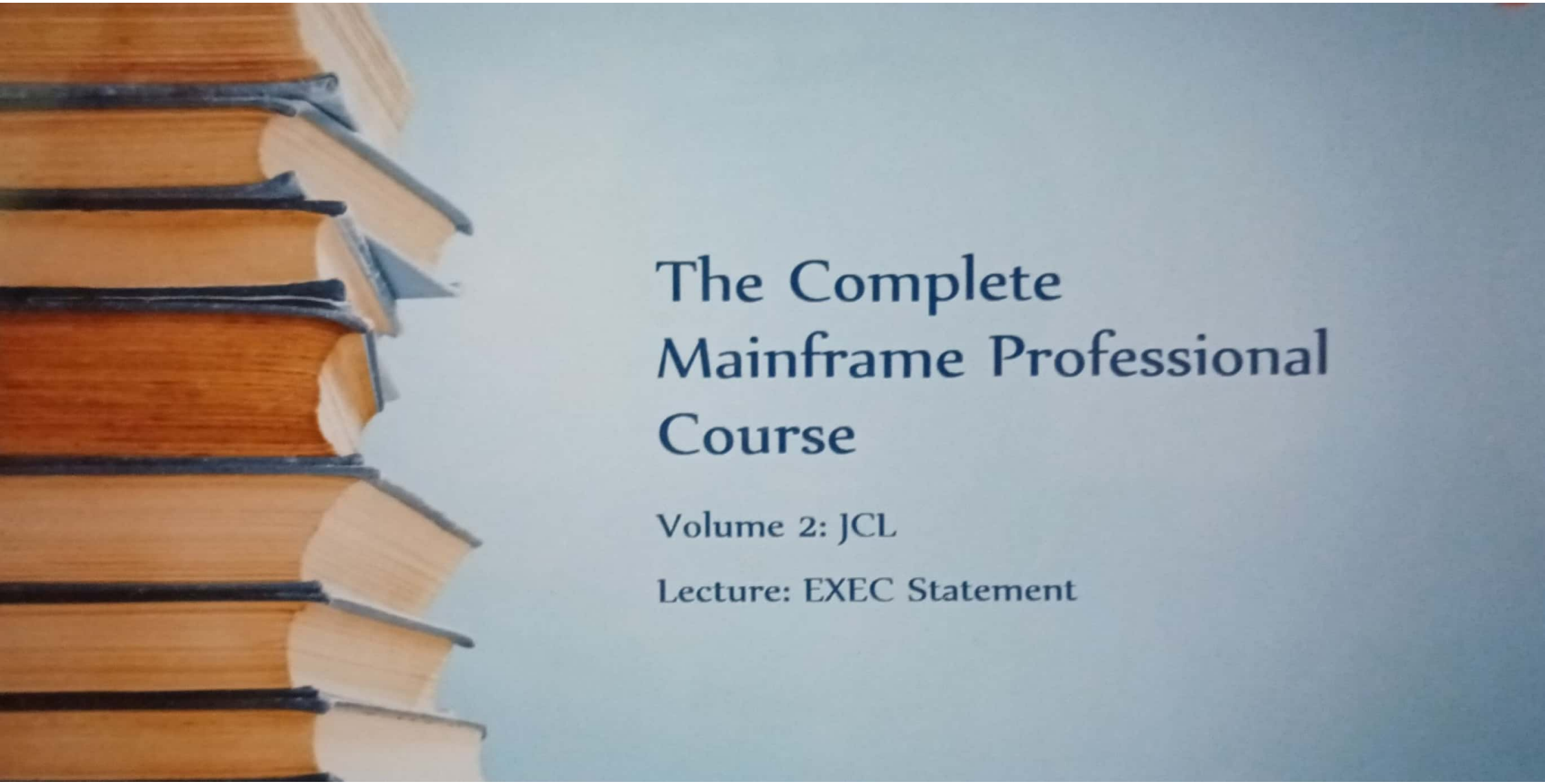

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EXEC Statement

- The EXEC statement is used to invoke the program/procedure that you want to execute.
- It tells the system, what program/procedure you want to execute.
- One JCL program can have multiple EXEC statements.
- Syntax of EXEC statement is

```
//Stepname EXEC Parameters
```

- Stepname must be 1-8 characters long.
- Stepname must be coded from position 3.
- First character of Stepname must be either alphabetic or national character.

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EXEC Statement

Parameters in EXEC Statement

Positional Parameters	Description
PGM	• It refers to the Program name to be executed in the job step.
PROC	• It refers to the Procedure name to be executed in the job step.

- A procedure refers to a set of JCL statements that are stored in a library and retrieved by its name.
- A procedure may contain one or more EXEC statements.

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EXEC Statement

Parameters in EXEC Statement

Keyword Parameters	Description
PARM	• Used to pass values to the program being executed in the step.
ACCT	• Specifies the accounting information of the job step. • ACCT=(userid)
TIME	• Maximum time allocated for the step execution • TIME=(mm, ss) or TIME=ss
REGION	• Specifies the amount of address space to be allocate for job execution • REGION = nK | nM

- When a parameter is omitted it takes up the default system value, which was defined by the system administrator.

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Summary

- EXEC statement tells the system, what program/procedure you want to execute.
- One JCL program can have multiple EXEC statements.
- Syntax of EXEC statement is

  //Stepname EXEC Parameters

- Stepname must be 1-8 characters long and must be coded from position 3.
- First character of Stepname must be either alphabetic or national character.

- EXEC Statement Parameters are :

1. Positional Parameters: PGM and PROC
2. Keyword Parameters: PARM, ACCT, TIME, REGION.

- When a parameter is omitted it takes the default system value.

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: DD Statement

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DD Statement

- DD stands for Dataset Definition.
- DD statement defines all the datasets to be used in the JCL.
- Syntax of DD statement is

```
//DDname DD Parameters
```

- DDname must be 1-8 characters long.
- DDname must be coded from position 3.
- First character of DDname must be either alphabetic or national character.

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DD Statement

Parameters in DD Statement

Positional Parameters	Description
*	• The * begins an in-stream data set.
DUMMY	• Used for testing of a JCL • Tells the system to not use any input/output for this DD statement
DATA	• In-stream dataset containing statements, which begin with //

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DD Statement

Parameters in DD Statement

Keyword Parameters	Description
DSN	• Dataset Name(DSN) is used to give the name of the Dataset. • DSN = Physical Dataset Name
DISP	• Disposition (DISP) describes the status of the dataset, what to do with the dataset on normal end of the job and what to do with the dataset on the abnormal end of the job. • DISP = (Status, normal end - disposition, abnormal end - disposition) • Status can be 1. NEW – The dataset will be created by this DD statement. 2. OLD - The dataset already exists, existing data will be overwritten and the jobstep will have exclusive access until completion of jobstep. 3. SHR – The dataset already exists, and will be read, multiple jobs can access it at the same time. 4. MOD – The dataset already exists, if not then new dataset will be created. Data will be added at the bottom of the existing data. • Normal end – disposition can be: CATLG, UNCATLG, DELETE, KEEP, PASS • Abnormal end - disposition can be: CATLG, UNCATLG, DELETE, KEEP

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DD Statement

Parameters in DD Statement

Keyword Parameters	Description
	• CATLG : The dataset is retained with an entry in the system catalog. • UNCATLG : The dataset is retained but the system catalog entry is removed. • KEEP : The dataset is retained without changing any of the catalog entries. • DELETE : Dataset is deleted from user and system catalog. • PASS : Used for only normal end - disposition. This is used when the dataset is to be passed and processed by the next job step in a JCL. • Default value of DISP is DISP=(NEW,DELETE,DELETE)
DCB	• Data Control Block (DCB) specifies the values for creating a new dataset • It contains various parameters such as 1. LRECL – Record length of the dataset 2. RECFM – Record format of the dataset such as FB, V, VB 3. BLKSIZE – Blocksize of the dataset 4. DSORG – Dataset organization

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DD Statement

Parameters in DD Statement

Keyword Parameters	Description
SPACE	• Specifies the space required for the dataset. • SPACE=(Spaceunits, (primary, secondry, directory-blocks), RLSE)
UNIT	• Specifies what type of storage to use for the dataset • UNIT=DASD | SYSDA • DASD will store the dataset in Direct Access Storage Device which is like a Tape storage. • SYSDA will store it in next available disk storage type.
VOL	• Specifies the volume number on the device where the dataset needs to be stored. • VOL=SER=(v1,v2) • v1, v2 are volume serial numbers.
SYSOUT	• Specifies the output destination based on the class. • SYSOUT=Class • When the class is A then the output is through the printer. • When the class is * then the output goes to the same destination as that of the MSGCLASS parameter.

Scanned with CamScanner

Summary

- DD stands for Dataset Definition.
- DD statement defines all the datasets to be used in the JCL.
- Syntax of DD statement is

  //DDname DD Parameters

- DDname must be 1-8 characters long.
- DDname must be coded from position 3.
- First character of DDname must be either alphabetic or national character.

- DD Statement Parameters are :

1. Positional Parameters: *, DUMMY, DATA.
2. Keyword Parameters: DSN, DISP, DCB, SPACE, UNIT, VOL, SYSOUT.

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: Let's run our first JCL

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Summary

- Write your JCL statements in a dataset of record length 80.
- The name of the job and the name of the member should be the same.
- To submit a JCL to the system type "submit" on the command line and press enter.
- The system will submit the job and return a Condition Code for the job.
- The user mentioned in NOTIFY parameter will get the result message of the JCL on his screen.
- MAXCC = 0 means successful execution.

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: JOB Processing

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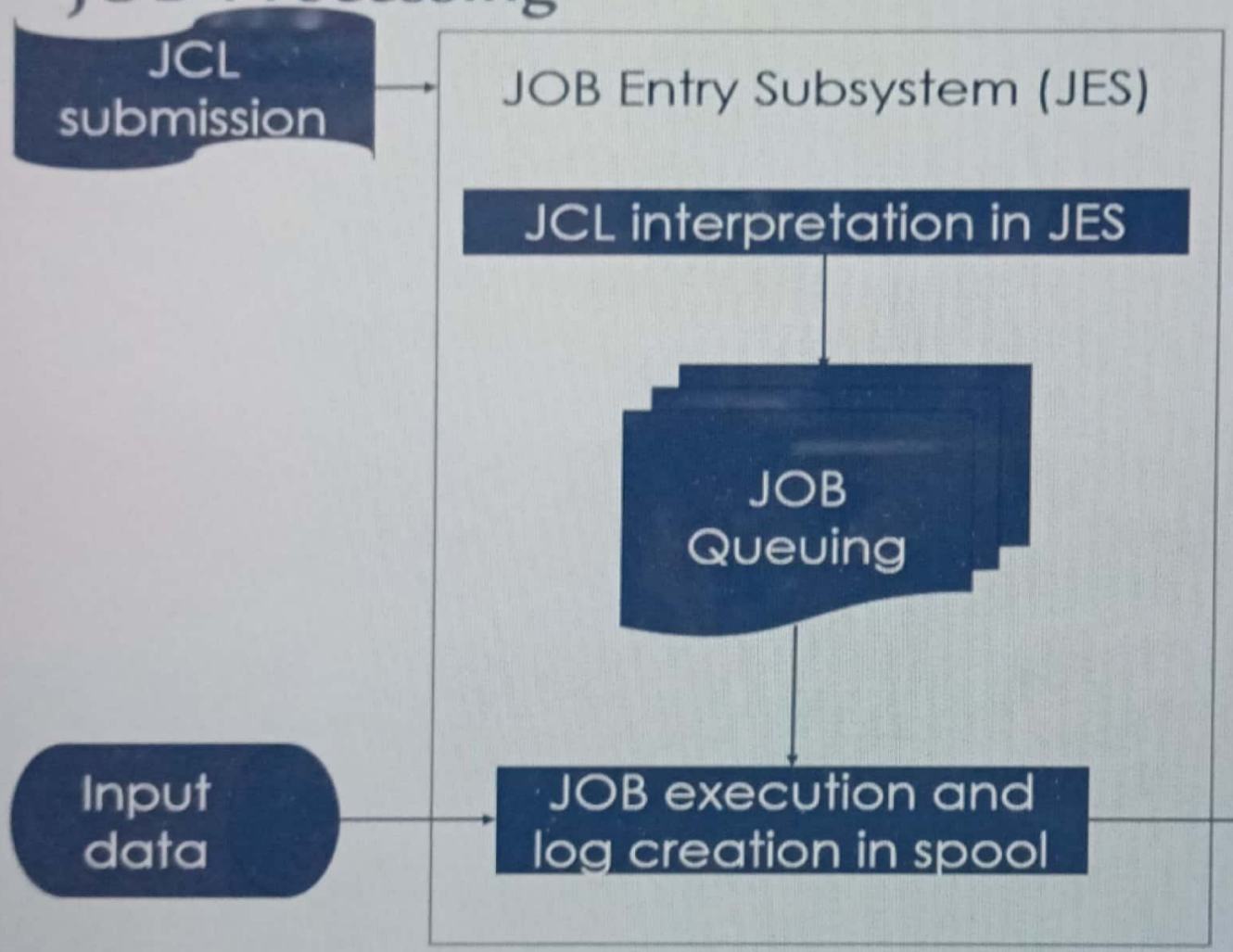
JOB Processing



JCL is converted into an interpreted text to be understood by JES and stored into a dataset, which is called as SPOOL

- JES decides the priority of the job based on CLASS and PRTY parameters.
- The JCL errors are checked and the job is scheduled into the job queue if there are no errors.

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JOB Processing

JES (Job Entry Subsystem) is used to

1. Submit jobs to the system.
2. Schedule the processing of the JOB.
3. Control the output of the jobs.

SPOOL (Simultaneous Peripheral Operations Online) is a dataset which stores the

1. Interpreted text for the JCL execution.
2. Messages related to JOB execution, such as JOB log.
3. Output data from the JOB execution, such as errors.

SPOOL information can be viewed using SDSF.

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Summary

- JES (Job Entry Subsystem) is used to Submit jobs to the system, Schedule the processing of the JOB and Control the output of the jobs.
- SPOOL (Simultaneous Peripheral Operations Online) is a dataset which stores the Interpreted text for the JCL execution, Messages related to JOB execution and Output data from the JOB execution.
- SPOOL information can be viewed using SDSF.
- JCL is submitted to the JES.
- JES interprets it in an understandable format.
- JES decides the priority of the job based on CLASS and PRTY parameters and then queue the job accordingly.
- JOB is then executed based on the input data, log is created in the spool for the job and output data is directed to the location based on the parameters in the JCL.

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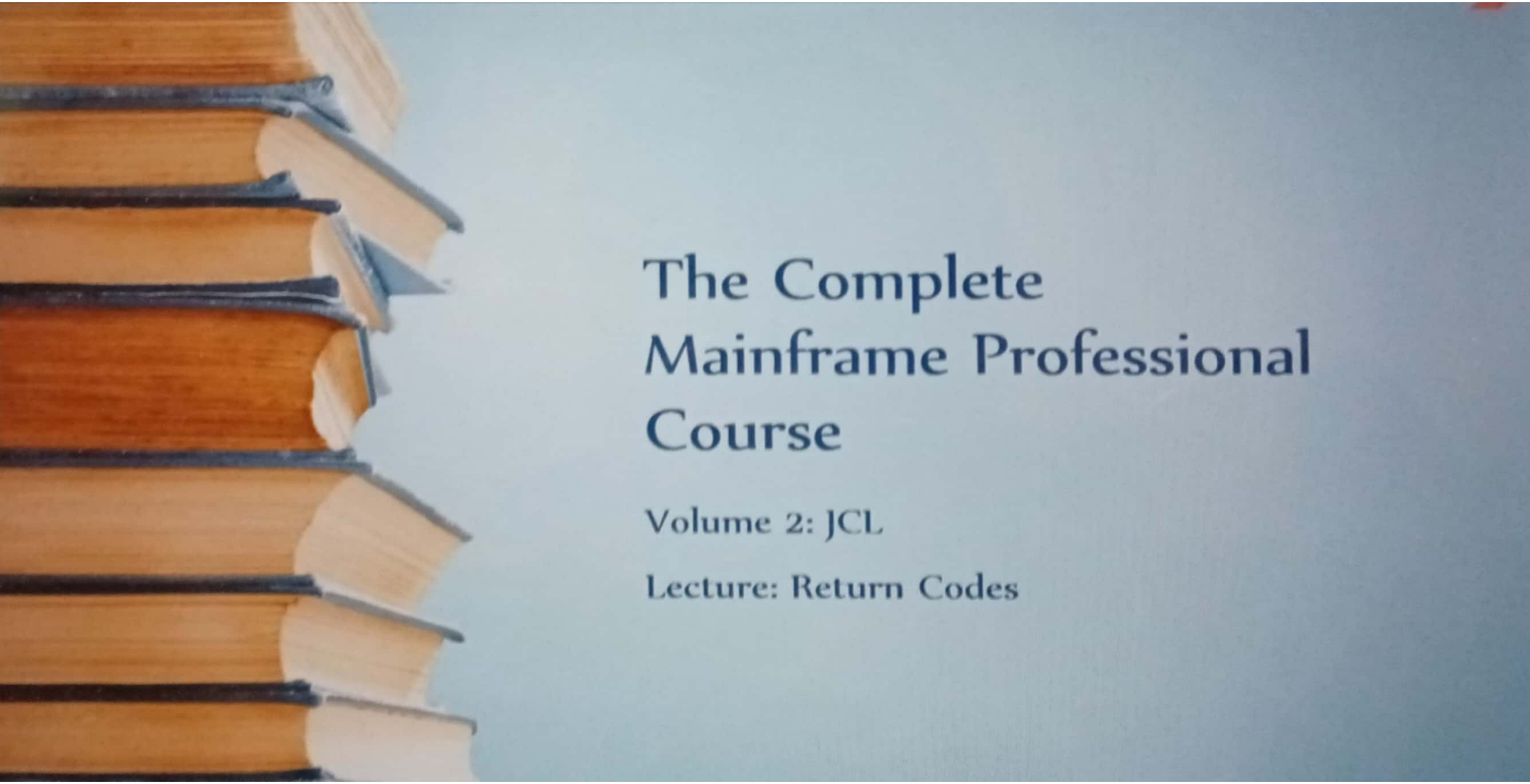

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Return Codes

- When a job executes a Return code is set based on the status of execution.
- Return code can vary from 0 to 4095.
- The most commonly used values are:

Return Code	Description
0	Successful execution
4	Successful execution with warnings
8	Errors
12	Severe Error
16	Major Error

- MAXCC is the maximum of the return code from all of the job steps.

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Summary

- When a job executes a Return code is set based on the status of execution.
- Return code can vary from 0 to 4095.
- The most commonly used values are:

Return Code	Description
0	Successful execution
4	Successful execution with warnings
8	Errors
12	Severe Error
16	Major Error

- MAXCC is the maximum of the return code from all of the job steps.

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: SDSF

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SDSF

- System Display and Search Facility(SDSF) is used to review the job output. Its primary purpose is to display printed output in the spool area.
- SDSF can be used to :

  1. View and search the system log
  2. Hold, release, cancel, and purge jobs
  3. Monitor jobs while they are processed
  4. Display job output
  5. Control the order in which jobs are processed

- SDSF can be used to save the data to a dataset for backup.

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SDSF

- Commands in SDSF are:

1. Enter Tso sdsf in the command line to go to SDSF.
2. Then enter st in SDSF command line to see the jobs.

Command	Description
?	List the datasets
s jobname	Search jobname
Owner userid	Show jobs owned by userid
Owner *	Show all the jobs
f jobname	Find and locate to jobname
Pre jobname	Prefix of jobname
P	Purge the dataset
C	Cancel the job
xdc	Store the output to a dataset

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Summary

- System Display and Search Facility(SDSF) is used to review the job output.
- Using SDSF we can

1. view, search the system log
2. Hold, release, cancel, and purge jobs
3. Monitor jobs while they are processed
4. Display job output
5. Control the order in which jobs are processed
6. Save the data to a dataset as backup

- Tso sdsf is the command to go to SDSF, then enter st in SDSF command line to see the jobs.

- Common commands used in SDSF are ?, s, Owner, f, pre, p, c, xdc.

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Volume 2: JCL

Lecture: Create a PS dataset

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Home

The Complete Job Control Language (JCL) Course.

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       ABHI.COURSE.JCLLIB(CREATEPS) - 01.00          Columns 00001 00072
Command ===>                                              Scroll ===> CSR
****** ***************************** Top of Data ******************************
000100 //CREATEPS JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A
000200 //STEP010 EXEC PGM=IEFBR14
000300 //DD1 DD DSN=ABHI.COURSE.PS,
000400 //       DISP=(NEW,CATLG,DELETE),
000500 //       SPACE=(TRK,(10,100),RLSE),
000600 //       DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000700 /*
****** ***************************** Bottom of Data ***************************
F1=Help     F2=Split    F3=Exit     F4=end      F5=spool    F6=Rchange
F7=Up       F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
```

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Home The Complete Job Control Language (JCL) Course.

File Edit Edit_Settings Menu Utilities Compilers Test Help

```
EDIT       ABHI.COURSE.JCLLIB(CREATEPS) - 01.00          Columns 00001 00072
Command ===>                                              Scroll ===> CSR
****** ***************************** Top of Data ******************************
000100 //CREATEPS JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A
000110 //*****************************************************************
000120 //*********   JCL TO CREATE A PS FILE
000130 //*****************************************************************
000200 //STEP010 EXEC PGM=IEFBR14
000300 //DD1 DD DSN=ABHI.COURSE.PS,
000400 //       DISP=(MOD,CATLG,DELETE),
000500 //       SPACE=(TRK,(10,100),RLSE),
000600 //       DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000610 //DD2 DD DSN=ABHI.COURSE.PS2,
000620 //       DISP=(MOD,CATLG,DELETE),
000630 //       SPACE=(TRK,(10,100),RLSE),
000640 //       DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000700 /*
****** ***************************** Bottom of Data ***************************

F1=Help     F2=Split    F3=Exit     F4=end      F5=spool    F6=Rchange
F7=Up       F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
```

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The Complete Mainframe Professional Course

Volume 2: JCL

Lecture: Create a PDS dataset and its member

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```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       ABHI.COURSE.JCLLIB(CREATPDS) - 01.00          Columns 00001 00072
Command ===> sub                                          Scroll ===> CSR
****** ***************************** Top of Data ******************************
000100 //CREATPDS JOB CLASS=A,PRTY=15,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=&SYSUID
000200 //*******************************************************************
000300 //*****          JCL TO CREATE A PDS DATASET
000400 //*******************************************************************
000500 //STEP010 EXEC PGM=IEFBR14
000600 //DD1 DD DSN=ABHI.COURSE.PDS,
000700 //      DISP=(NEW,CATLG,DELETE),
000800 //      SPACE=(CYL,(10,100,4),RLSE),
000900 //      DCB=(LRECL=80,BLKSIZE=800,RECFM=FB,DSORG=PO)
001000 /*
****** ***************************** Bottom of Data ***************************

F1=Help     F2=Split    F3=Exit     F4=end      F5=spool    F6=Rchange
F7=Up       F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel

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```

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```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       ABHI.COURSE.JCLLIB(CREATMEM) - 01.01          Member CREATMEM saved
Command ===>  save                                        Scroll ===> CSR
****** ********************************* Top of Data ********************************
000200 //CREATMEM JOB CLASS=A,PRTY=15,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=&SYSUID
000300 //*****************************************************************************
000400 //*****        JCL TO CREATE A PDS DATASET MEMBER
000500 //*****************************************************************************
000600 //STEP010 EXEC PGM=IEBGENER
000700 //SYSUT1 DD *
000701 //SYSUT2 DD DSN=ABHI.COURSE.PDS(MEMBER1),
000800 //       DISP=SHR
000900 //SYSIN DD DUMMY
001000 //SYSPRINT DD SYSOUT=*
001100 /*
****** ********************************* Bottom of Data *****************************
F1=Help     F2=Split    F3=Exit     F4=end      F5=spool    F6=Rchange
F7=Up       F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
48  B X ()                                                  04/21
```

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Volume 2: JCL

Lecture: Delete a PS/PDS dataset

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```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       ABHI.COURSE.JCLLIB(DELPS) - 01.01            Columns 00001 00072
Command ===>                                             Scroll ===> CSR
****** ***************************** Top of Data ******************************
000200 //DELPS JOB CLASS=A,PRTY=15,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=&SYSUID
000300 //*******************************************************************
000400 //*****          JCL TO DELETE A PS DATASET
000500 //*******************************************************************
000600 //STEP010 EXEC PGM=IEFBR14
000700 //DD1     DD   DSN=ABHI.COURSE.PS,
000800 //             DISP=(OLD,DELETE,DELETE)
000900 /*
****** ***************************** Bottom of Data ***************************

F1=Help     F2=Split    F3=Exit     F4=end      F5=spool    F6=Rchange
F7=Up       F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
```

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Home

The Complete Job Control Language (JCL) Course.

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       ABHI.COURSE.JCLLIB(DELPDS) - 01.01              Member DELPDS saved
Command ===>                                                Scroll ===> CSR
****** ***************************** Top of Data ******************************
000200 //DELPS JOB CLASS=A,PRTY=15,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=&SYSUID
000300 //*****************************************************************
000400 //*****        JCL TO DELETE A PDS DATASET
000500 //*****************************************************************
000600 //STEP010 EXEC PGM=IEFBR14
000700 //DD1     DD   DSN=ABHI.COURSE.PDS,
000800 //             DISP=(OLD,DELETE,DELETE)
000900 /*
****** ***************************** Bottom of Data ***************************
F1=Help      F2=Split     F3=Exit      F4=end       F5=spool     F6=Rchange
F7=Up        F8=Down      F9=Swap      F10=Left     F11=Right    F12=Cancel
```

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Home The Complete Job Control Language (JCL) Course.

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       ABHI.COURSE.JCLLIB(DELMEM) - 01.01            Columns 00001 00072
Command ===>      sub                                      Scroll ===> CSR
****** ***************************** Top of Data ******************************
000200 //DELMEM JOB CLASS=A,PRTY=15,MSGCLASS=A,MSGLEVEL=(1,1),NOTIFY=&SYSUID
000300 //*****************************************************************
000400 //*****        JCL TO DELETE A PDS DATASET MEMBER
000500 //*****************************************************************
000600 //STEP010 EXEC PGM=IDCAMS
000700 //DD1     DD   DSN=ABHI.COURSE.PDS,
000800 //             DISP=SHR
000810 //SYPRINT DD   SYSOUT=*
000820 //SYSIN   DD   *
000830       DELETE 'ABHI.COURSE.PDS(MEMBER1)' FILE(DD1)
000900 /*
****** ***************************** Bottom of Data ***************************

F1=Help      F2=Split     F3=Exit      F4=end       F5=spool     F6=Rchange
F7=Up        F8=Down      F9=Swap      F10=Left     F11=Right    F12=Cancel
```

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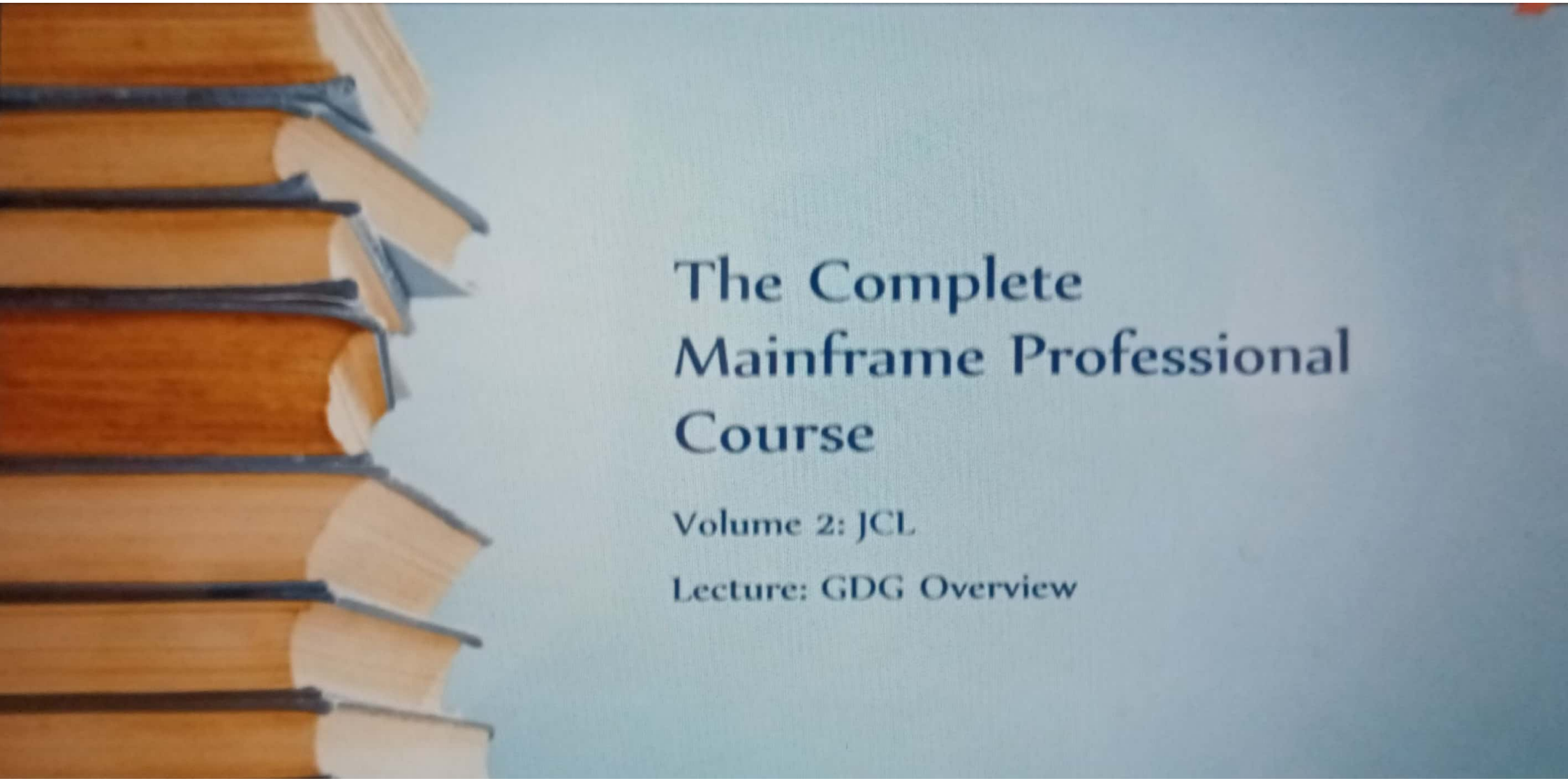

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Generation Data Group (GDG)

- A GDG is a group of files related to each other and having a common name.
- For example a bank can have datasets containing the names of its new customers in January, February and so on. There will be twelve datasets per year for the bank. These datasets will be grouped together to form a GDG instead of twelve different datasets.
- So the name of the GDGs can be
  - Bank.customers.monthly.G0001V00 → for January
  - Bank.customers.monthly.G0002V00 → for February
  - Bank.customers.monthly.G0003V00 → for March .....

G001 stands for generation number

V00 stands for version number

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Generation Data Group (GDG)

- To create a GDG, a dataset called GDG base is first created. All the generations are then modeled from this base. In the previous examp

Bank.customers.monthly	→	GDG Base
Bank.customers.monthly.G0001V00	→	1st Generation
Bank.customers.monthly.G0002V00	→	2nd Generation

- Maximum number of GDG generations can be 255.
- The most recent generation in a GDG is denoted in JCL as

  Bank.customers.monthly(0)

The second most recent version is

Bank.customers.monthly(-1) ..... And so on

- Utility called IDCAMS is used to define a GDG.

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Generation Data Group (GDG)

- A GDG has the following parameters

1. LIMIT - Maximum number of generations that a GDG can hold. In the previous example 12 will be the limit of the GDG.
2. EMPTY - Uncatalogs all generation once limit is reached.

   NOEMPTY – Uncatalogs only the oldest generation once limit is reached
3. SCRATCH – Deletes the generation when uncataloged.

   NOSCRATCH – Does not deletes the generation when uncataloged.

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Summary

- A GDG is a group of files related to each other and having a common name.
- To create a GDG, a dataset called GDG base is first created.
- Maximum number of GDG generations can be 255.
- The most recent generation in a GDG is denoted in JCL as

  Bank.customers.monthly(0)
  then Bank.customers.monthly(-1)
  then Bank.customers.monthly(-2) .....

- IDCAMS utility is used to define/alter/delete a GDG.
- The various GDG parameters are
  1. LIMIT
  2. EMPTY/NOEMPTY
  3. SCRATCH/NOSCRATCH

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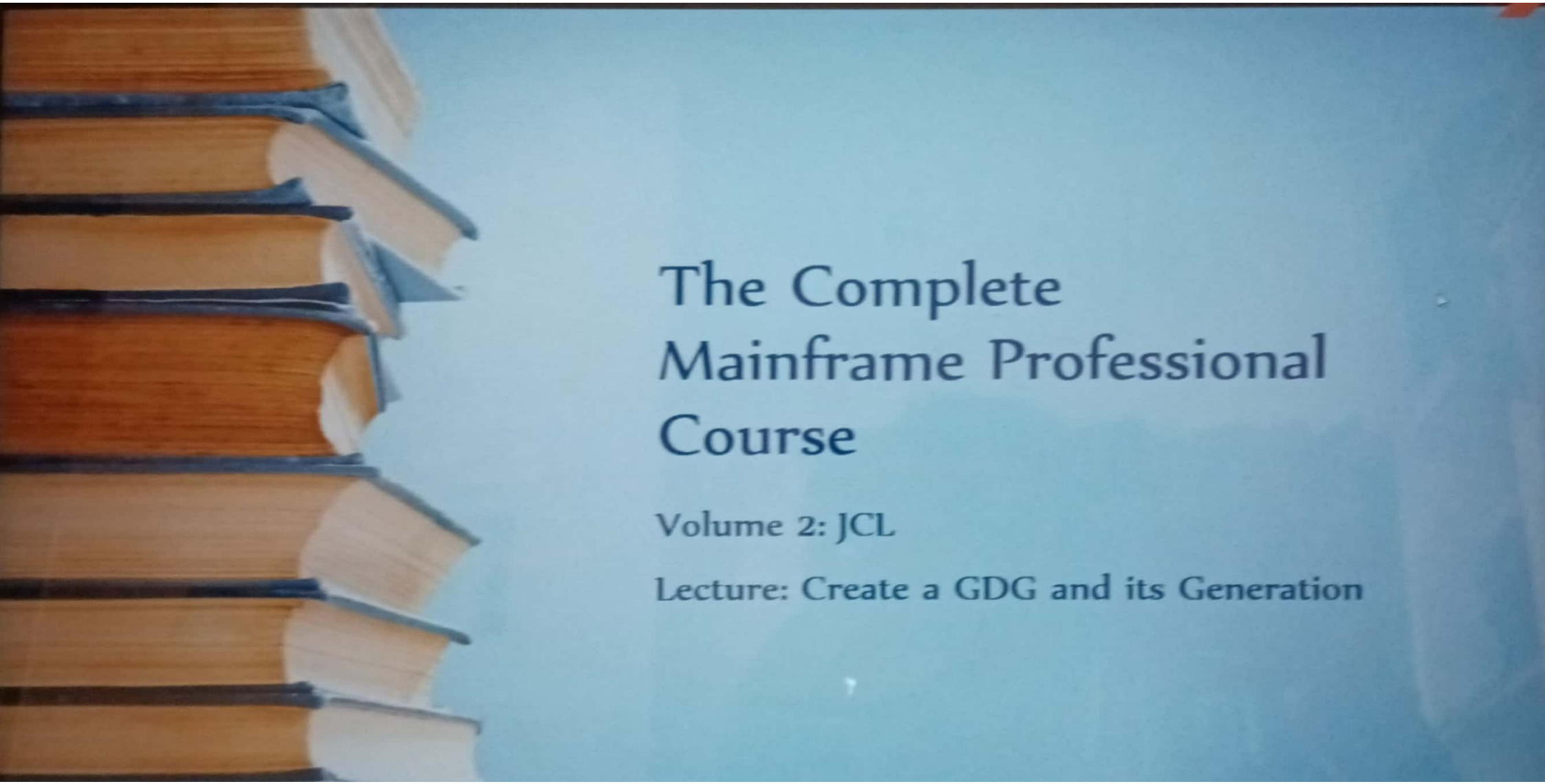

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREGDG) - 01.00 Member CREGDG saved

Command ===> sub Scroll ===> CSR

****** ********** Top of Data **********

```
000200 //CREGDG  JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,
000300 //             PRTY=15
000500 //*****************************************************************
000600 //**********    JCL TO CREATE A GDG
000700 //*****************************************************************
001100 //STEP010 EXEC PGM=IDCAMS
001200 //SYSPRINT DD SYSOUT=*
001300 //SYSIN    DD *
001400       DEFINE GDG(NAME(BANK.CUSTOMER.MONTHLY)
001500              LIMIT(12)
001600              NOEMPTY
001700              SCRATCH
001800 /*
```

****** ********** Bottom of Data **********

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREGEN) - 01.00 Member CREGEN saved

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000100 //CREGEN  JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,
000200 //             PRTY=15
000300 //*****************************************************************
000400 //*********   JCL TO CREATE A GDG GENERATION
000500 //*****************************************************************
000600 //STEP010 EXEC PGM=IEFBR14
000700 //DD1      DD DSN=BANK.CUSTOMER.MONTHLY(+1),
000710 //            DISP=(NEW,CATLG,DELETE),
000720 //            SPACE=(TRK,(100,100),RLSE),
000730 //            DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000800 //SYSPRINT DD SYSOUT=*
001300 /*
```

****** ********** Bottom of Data **********

F1=Help F2=Split F3=Exit F4=end F5=spool F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

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File Edit Edit_Settings Menu Utilities Compilers Test Help

```
EDIT       ABHI.COURSE.JCLLIB(ALTERGDG) - 01.04            Columns 00001 00072
Command ===>                                                Scroll ===> CSR
****** ***************************** Top of Data ******************************
000200 //ALTERGDG JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,
000300 //             PRTY=15
000500 //*****************************************************************
000600 //*********   JCL TO ALTER A GDG
000700 //*****************************************************************
001100 //STEP010 EXEC PGM=IDCAMS
001200 //SYSPRINT DD SYSOUT=*
001300 //SYSIN    DD *
001400       ALTER BANK.CUSTOMER.MONTHLY -
001500             LIMIT(3)              -
001800 /*
****** ***************************** Bottom of Data ***************************
```

F1=Help F2=Split F3=Exit F4=end F5=spool F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(ALTERGDG) - 01.05 Member ALTERGDG saved

Command ===> sub Scroll ===> CSR

```
****** ***************************** Top of Data ******************************
000200 //ALTERGDG JOB CLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),MSGCLASS=A,
000300 //             PRTY=15
000500 //*****************************************************************
000600 //*********   JCL TO ALTER A GDG
000700 //*****************************************************************
001100 //STEP010 EXEC PGM=IDCAMS
001200 //SYSPRINT DD SYSOUT=*
001300 //SYSIN    DD *
001400       ALTER BANK.CUSTOMER.MONTHLY -
001600             EMPTY
001800 /*
****** ***************************** Bottom of Data ***************************
```

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Summary

- The Latest created GDG generation is referenced as:

  'Gdg Basename(0)'

- The next latest is

  "GDG Basename(-1)",
  then -2,
  then -3 and so on.

- GDG generation created in a JCL is referenced as +1 during the whole JCL.

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Volume 2: JCL

TSO	- Logon to TSO/ISPF	CNM01	- Netview System
CICS	- CICS System	SA	- System Automation
IMS	- IMS System		

Enter your choice==> Delete a GDG Generation

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```
Menu  Options  View  Utilities  Compilers  Help

DSLIST - Data Sets Matching BANK.CUSTOMER.*                    Row 1 of 6
Command ===>                                                   Scroll ===> PAGE

Command - Enter "/" to select action                Message          Volume
-------------------------------------------------------------------------------
        BANK.CUSTOMER.MONTHLY                                        ??????
        BANK.CUSTOMER.MONTHLY.G0001V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0002V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0003V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0004V00                               ZASYS1
 d      BANK.CUSTOMER.MONTHLY.G0005V00                               ZASYS1
********************************** End of Data Set list ***********************************

4T                                                   0      13,4
```

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```
Menu  Options  View  Utilities  Compilers  Help

                          Confirm Delete                          1 of 6
Command ===>                                                      > PAGE

Data Set Name . : BANK.CUSTOMER.MONTHLY.G0005V00                  Volume
Volume  . . . . : ZASYS1                                          -------
Creation date . : 2018/04/14                                      ??????
                                                                  ZASYS1
Enter "/" to select option                                        ZASYS1
_  Set data set delete confirmation off                           ZASYS1
                                                                  ZASYS1
Instructions:                                                     ZASYS1
  Press ENTER to confirm delete.                                  ******
  (The data set will be deleted and uncataloged.)

  Press CANCEL or EXIT to cancel delete.

4I                                   0      11,6
```

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```
Menu  Options  View  Utilities  Compilers  Help

DSLIST - Data Sets Matching BANK.CUSTOMER.*                    Data set deleted
Command ===>                                                   Scroll ===> PAGE

Command - Enter "/" to select action                Message          Volume
-------------------------------------------------------------------------------
        BANK.CUSTOMER.MONTHLY                                        ??????
        BANK.CUSTOMER.MONTHLY.G0001V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0002V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0003V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0004V00                               ZASYS1
        BANK.CUSTOMER.MONTHLY.G0005V00                  Deleted
****************************** End of Data Set list ******************************

4II                                                   0      13,2
```

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(DELGDGM) - 01.03 Member DELGDGM saved

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //DELGDGM JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //            PRTY=15
000003 //STEP2    EXEC PGM=IEFBR14
000004 //DD1        DD DSN=BANK.CUSTOMER.MONTHLY(0),
000005 //              DISP=(OLD,DELETE,DELETE)
000006 //SYSPRINT   DD SYSOUT=*
000007 //SYSIN      DD DUMMY
000008 /*
```

****** ********** Bottom of Data **********

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Summary

Press Esc to exit full screen

GDG Generation can be easily deleted just like a PS file by giving

DISP=(OLD,DELETE,DELETE)

Name of the generation can be directly given or given as

GDGBasename(0)

GDG generation can also be deleted through ISPF Panel by giving 'd' in front of the GDG generation.

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CICS	- CICS System	SA	- System Automation
IMS	- IMS System		

Enter your choice==> Delete a GDG_

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(DELGDG) - 01.04 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //DELGDG JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //            PRTY=15
000003 //STEP1  EXEC PGM=IDCAMS
000004 //SYSPRINT DD SYSOUT=*
000005 //SYSIN    DD *
000006              DELETE (BANK.CUSTOMER.MONTHLY) GDG FORCE
                                                       PURGE
000007 /*
```

****** ********** Bottom of Data **********

4T ⇨ 0 13,9

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(DELGDG) - 01.04 Member DELGDG saved

Command ===> submit Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //DELGDG JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //            PRTY=15
000003 //STEP1  EXEC PGM=IDCAMS
000004 //SYSPRINT DD SYSOUT=*
000005 //SYSIN    DD *
000006              DELETE (BANK.CUSTOMER.MONTHLY) GDG FORCE
000007 /*
```

****** ********** Bottom of Data **********

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Udemy

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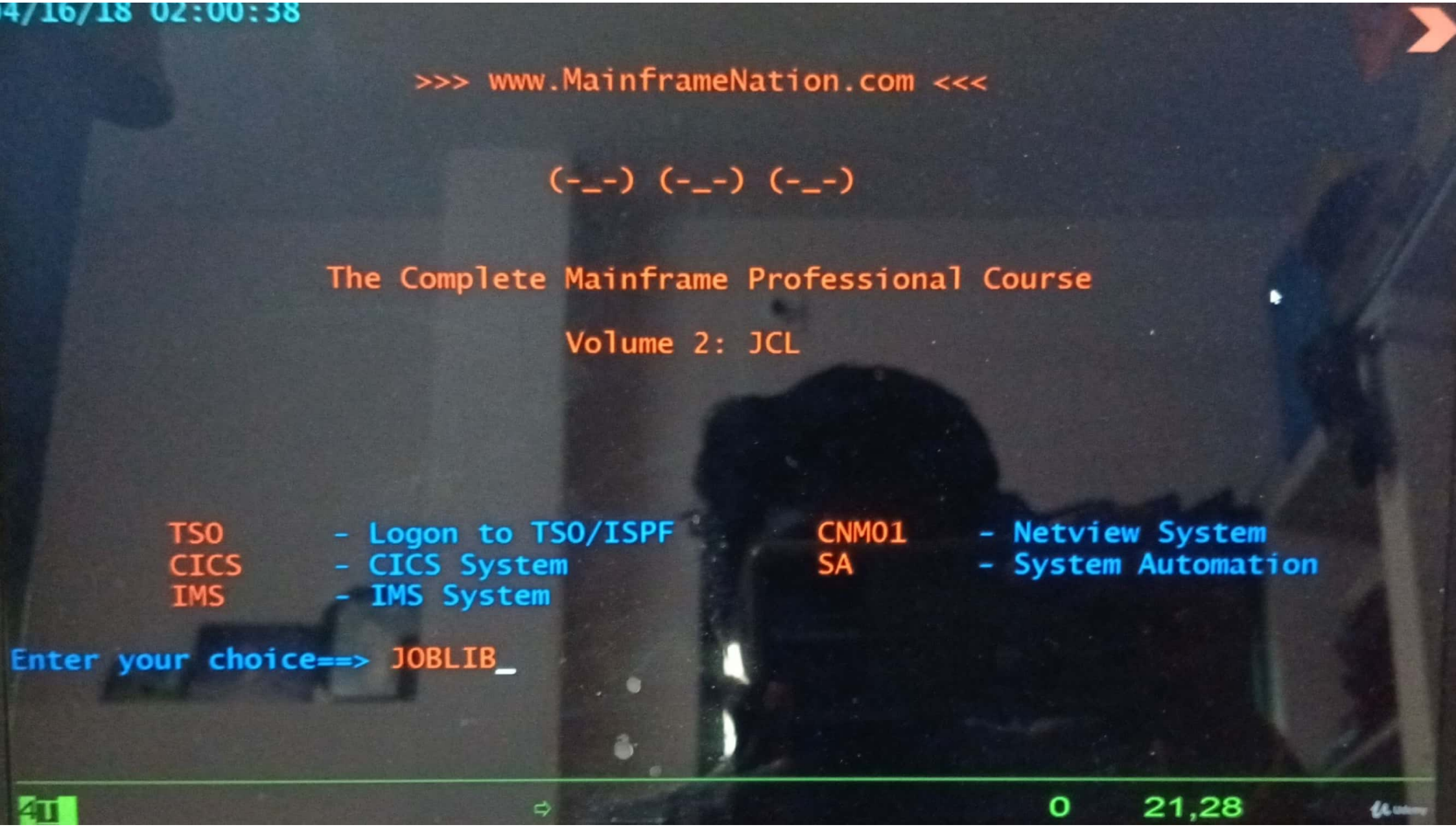

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.COMPILER(COBRUN) - 01.12 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //COBRUN      JOB   CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,)
000002 //JOBLIB      DD    DSN=ABHI.COURSE.LOAD,DISP=SHR
000003 S/STEP1       EXEC  PGM=ARITHM
000004 //SYSPRINT    DD    SYSOUT=*
000005 //SYSIN       DD    *
000006 43
000007 23
000008 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15 Udemy

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Summary

JOBLIB tells the location of the load module used in the JCL. Syntax of JCLLIB is:

```
//JOBLIB DD DSN=location of load modules
```

More than one dataset can be mentioned on JOBLIB location.

The default search location of a load module is SYS1.LINKLIB

If JOBLIB is provided then the load module is first searched in the PDS mentioned in the JOBLIB. If not found then the load modules is searched in SYS1.LINKLIB. Joblib thus makes searching of the load module faster.

When a Load module is not found in both the JOBLIB and default library then an abend s806 will occur.

JOBLIB has to be given just after the JOB Statement, before any EXEC statement.

JOBLIB is applicable to all the steps in the JCL.

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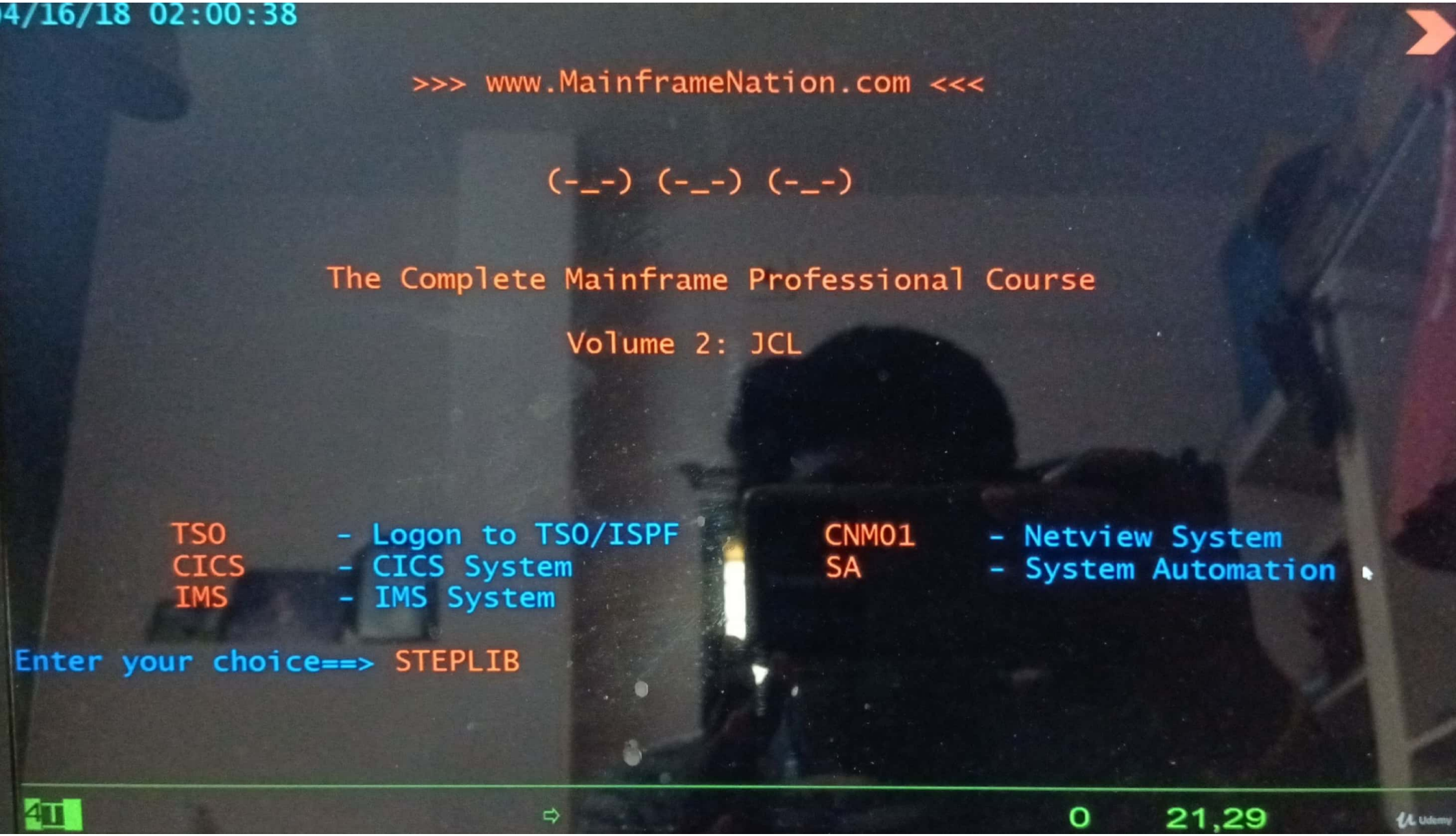

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```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       ABHI.COURSE.COMPILER(COBRUN) - 01.12          Columns 00001 00072
Command ===>                                              Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //COBRUN        JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,)
000002 //JOBLIB        DD   DSN=ABHI.COURSE.LOAD,DISP=SHR
000003 //              DD   DSN=ABHI.COURSE.LOAD2,DISP=SHR
000004 //              DD   DSN=ABHI.COURSE.LOAD3,DISP=SHR
000005 //STEP1         EXEC PGM=ARITHM
000006 //SYSPRINT      DD   SYSOUT=*
000007 //SYSIN         DD   *
000008 43
000009 23
000010 AB
000011 //STEP2 EXEC PGM=PGMA
000012 //STEPLIB DD DSN=ABHR.COURSE.LOAD1,DISP=SHR
000013 //        DD   DSN=ABHI.COURSE.LOAD2,DISP=SHR
000014 //        DD   DSN=ABHI.COURSE.LOAD3,DISP=SHR
000015 //STEP3 EXEC PGM=PGMB
000016 //STEP4 EXEC PGM=PGMC
****** ********************************* Bottom of Data *****************************
```

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Summary

STEPLIB is used to tell the location of the load module for one particular STEP.

Syntax of STEPLIB is:

```
//STEPLIB DD DSN=location of load modules
```

STEPLIB is given exactly after the EXEC statement before any DD statement.

More than one dataset can be mentioned in the location of load module.

If both JOBLIB and STEPLIB are present then JOBLIB is ignored.

If the load module is not found in STEPLIB then it is searched in the default library SYS1.LINKLIB

STEPLIB makes the searching of the load module faster.

STEPLIB is only applicable to the one particular step in which it is mentioned.

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Volume 2: JCL

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CICS	- CICS System	SA	- System Automation
IMS	- IMS System		

Enter your choice==> JCLLIB

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPS) - 01.05 Member CREPS saved

Command ===> jcllib ==== location of JCL code Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //STEP2   EXEC CREPSPR,MNAME=NEW
```

****** ********** Bottom of Data **********

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File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW ABHI.COURSE.JCLLIB(CREPSPR) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPSPR PROC
000002 //STEP1  EXEC PGM=IEFBR14
000003 //DD1      DD DSN=ABHI.&MNAME..PS1,
000004 //            DISP=(NEW,CATLG,DELETE),
000005 //            SPACE=(TRK,(100,100),RLSE),
000006 //            DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000007 //STEP2 EXEC PROC,FNAME=SDF
000008 //        PEND
000009
000010 //JOBLIB DD DSN=........,
000011 //       DD DSN=........
000012
000013 //STEPLIB DD DSN=......,
000014 //        DD DSN=....
000015
000016 //NAME  JCLLIB ORDER=(....,...)
```

****** ********** Bottom of Data **********

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27. InStream Procedures

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Volume 2: JCL

TSO	- Logon to TSO/ISPF	CNM01	- Netview System
CICS	- CICS System	SA	- System Automation
IMS	- IMS System		

Enter your choice==> Instream Procedures

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27. InStream Procedures

```
EDIT        ABHI.COURSE.JCLLIB(CREPS) - 01.01                Columns 00001 00072
Command ===>                                                  Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //CREPSPR PROC
000004 //STEP1   EXEC PGM=IEFBR14
000005 //DD1       DD DSN=ABHI.COURSE.PS1,
000006 //              DISP=(NEW,CATLG,DELETE),
000007 //              SPACE=(TRK,(100,100),RLSE),
000008 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000009 //          PEND
000010 //*
000011 //STEP2   EXEC PGM=IEFBR14
000012 //DD1       DD DSN=ABHI.COURSE.PS2,
000013 //              DISP=(NEW,CATLG,DELETE),
000014 //              SPACE=(TRK,(100,100),RLSE),
000015 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000016 //STEP 3    ABHI.COURSE.PS3
000017 //STEP 4    ABHI.COURSE.PS4
000018 //STEP 5    ABHI.COURSE.PS5
****** ********************************* Bottom of Data *****************************
```

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27. InStream Procedures

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       ABHI.COURSE.JCLLIB(CREPS) - 01.01                Columns 00001 00072
Command ===>                                                 Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //CREPSPR PROC
000005 //STEP1   EXEC PGM=IEFBR14
000006 //DD1       DD DSN=ABHI.COURSE.PS1,
000007 //              DISP=(NEW,CATLG,DELETE),
000008 //              SPACE=(TRK,(100,100),RLSE),
000009 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000010 //          PEND
000011 //*
000012 //STEP2   EXEC CREPSPR
000013 //STEP3   EXEC CREPSPR
000014 //STEP4   EXEC CREPSPR
000015 //STEP5   EXEC CREPSPS
****** ********************************* Bottom of Data *****************************
```

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File Edit Edit_Settings Menu Utilities Compilers Test Help

27. InStream Procedures

```
EDIT        ABHI.COURSE.JCLLIB(CREPS) - 01.01                Columns 00001 00072
Command ===>                                                  Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //CREPSPR PROC
000005 //STEP1  EXEC PGM=IEFBR14
000006 //DD1      DD DSN=&DNAME,
000007 //              DISP=(NEW,CATLG,DELETE),
000008 //              SPACE=(TRK,(100,100),RLSE),
000009 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000010 //         PEND
000011 //*
000012 //STEP2  EXEC CREPSPR,DNAME=ABHI.COURSE.PS1
000013 //STEP3  EXEC CREPSPR,DNAME=ABHI.COURSE.PS2
000014 //STEP4  EXEC CREPSPR,DNAME=ABHI.COURSE.PS3
000015 //STEP5  EXEC CREPSPS,DNAME=ABHI.COURSE.PS4
****** ********************************* Bottom of Data *****************************
```

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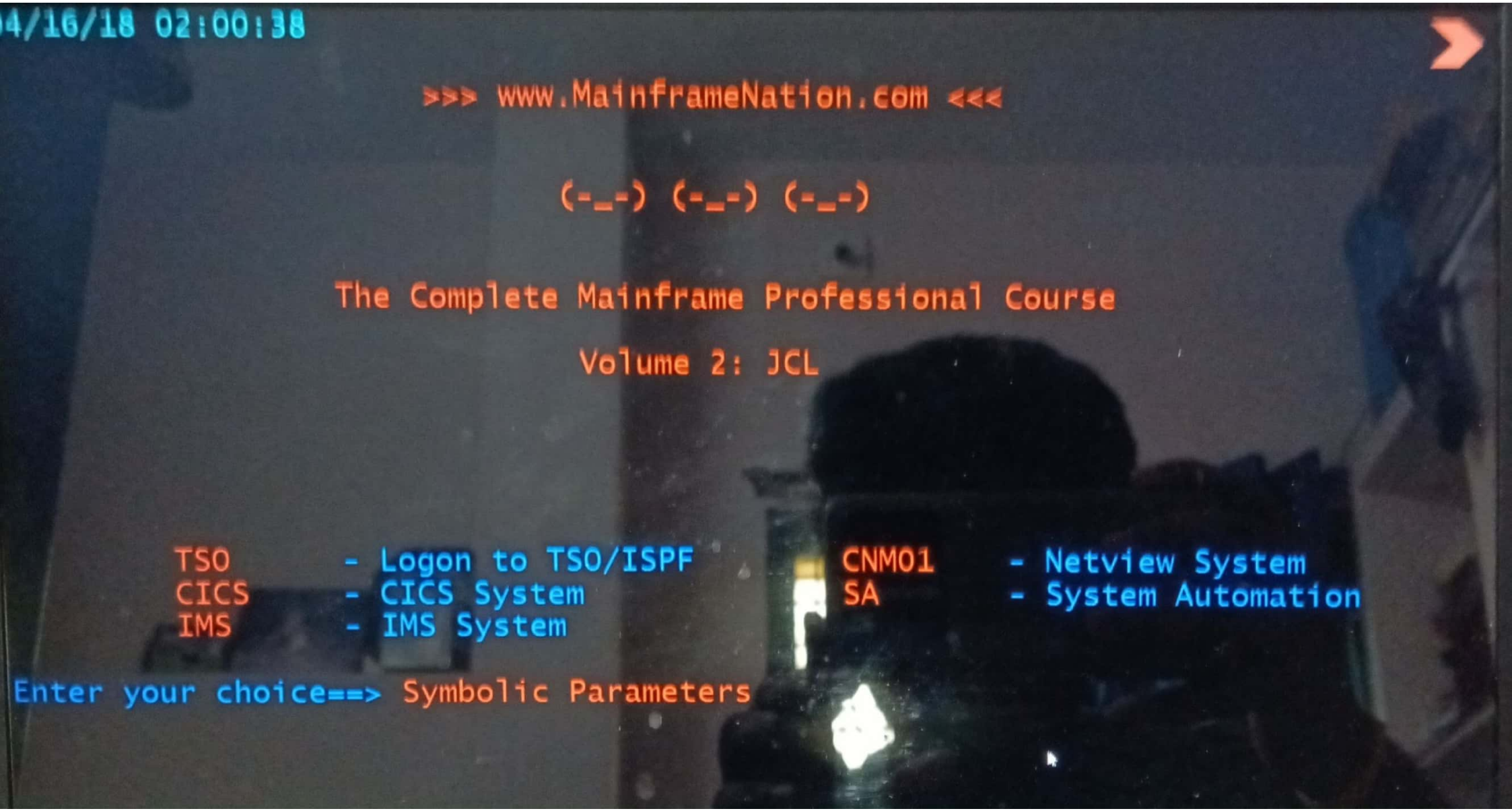

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPS) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR
****** ********** Top of Data **********

```
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //CREPSPR PROC
000005 //STEP1   EXEC PGM=IEFBR14
000006 //DD1       DD DSN=ABHI.&MNAME.PS1,
000007 //              DISP=(NEW,CATLG,DELETE),
000008 //              SPACE=(TRK,(100,100),RLSE),
000009 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000010 //          PEND
000011 //*
000012 //STEP2   EXEC CREPSPR,MNAME=ABHI.COURSE.PS1
000013 //STEP3   EXEC CREPSPR,DNAME=ABHI.COURSE.PS2
000014 //STEP4   EXEC CREPSPR,DNAME=ABHI.COURSE.PS3
000015 //STEP5   EXEC CREPSPR,DNAME=ABHI.COURSE.PS4
000016 /*
```

****** ********** Bottom of Data **********

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Summary

- Symbolic parameters are used to pass value to procedures.
- Symbolic parameters start with '&' and end with '.'
- '.' can be omitted in case there is no other parameter after it.
- Value of symbolic parameters are passed while calling the Procedure
- Reserved Keywords are not allowed as Symbolic parameter names.
- Examples of symbolic parameters:

  &DNAME

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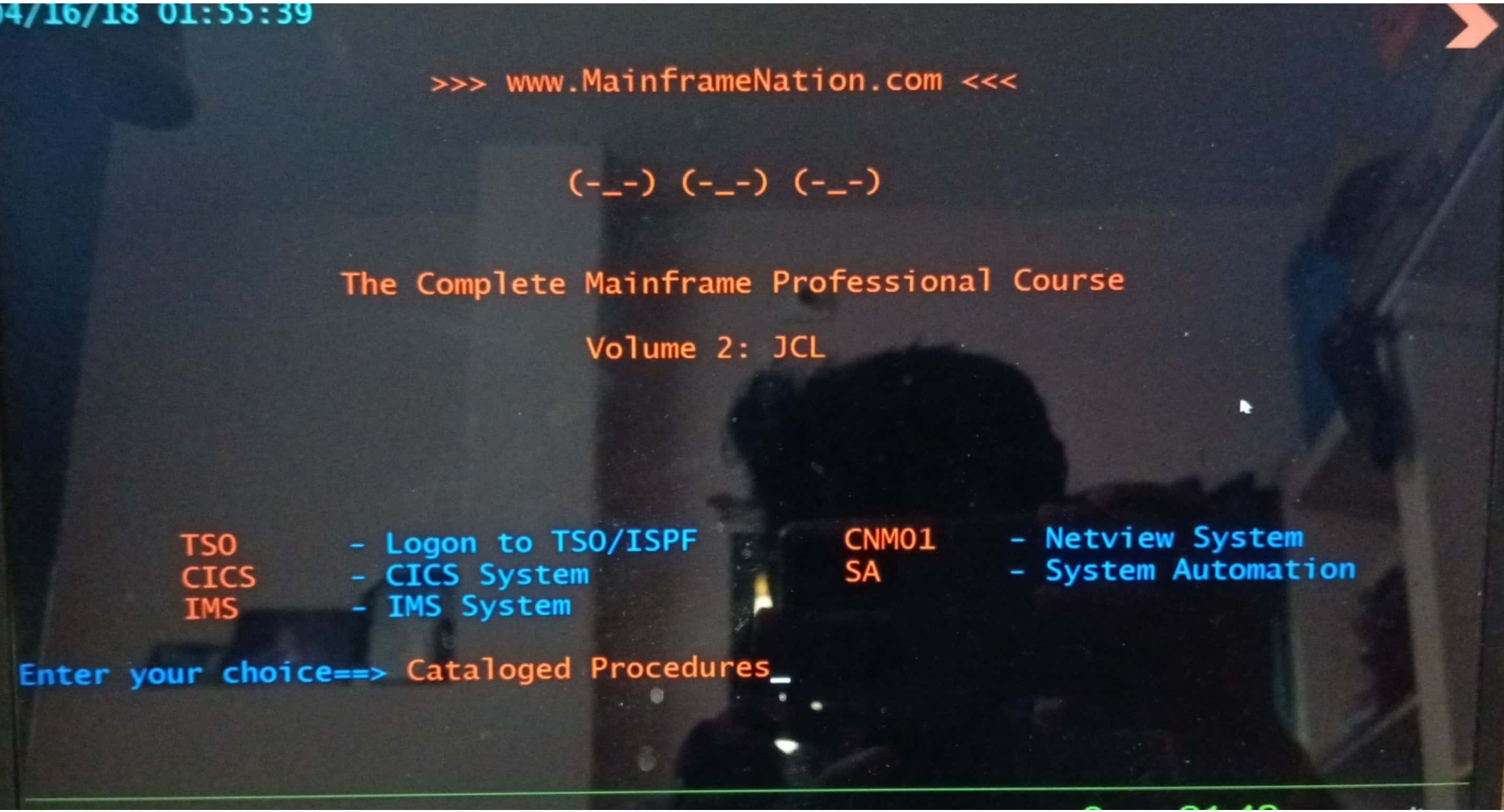

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPS) - 01.04 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //PROCLOC JCLLIB ORDER=ABHI.COURSE.JCLLIB
000005 //*
000006 //STEP2   EXEC CREPSPR,MNAME=NEW
000007 /*
```

****** ********** Bottom of Data **********

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPSPR) - 01.01 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPSPR PROC
000002 //STEP1  EXEC PGM=IEFBR14
000003 //DD1      DD DSN=ABHI.&MNAME..PS1,
000004 //            DISP=(NEW,CATLG,DELETE),
000005 //            SPACE=(TRK,(100,100),RLSE),
000006 //            DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000007 //         PEND
```

****** ********** Bottom of Data **********

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File Edit Edit_Settings Menu Utilities Compilers Test Help

VIEW ABHI.COURSE.JCLLIB(CREPSPR) - 01.02 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPSPR PROC
000002 //STEP1  EXEC PGM=IEFBR14
000003 //DD1      DD DSN=ABHI.&MNAME..PS1,
000004 //            DISP=(NEW,CATLG,DELETE),
000005 //            SPACE=(TRK,(100,100),RLSE),
000006 //            DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000007 //STEP2 EXEC PROC,FNAME=SDF
000008 //         PEND
```

****** ********** Bottom of Data **********

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```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       ABHI.COURSE.JCLLIB(CREPS) - 01.04              Columns 00001 00072
Command ===>                                               Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //PROCLOC JCLLIB ORDER=ABHI.COURSE.JCLLIB
000005 //*
000006 //STEP2  EXEC CREPSPR,MNAME=NEW
000007 /*
000008 /*
000009 /*          instream        ----   proc and jcl is in same code
000010 /*          cataloged              proc is located at diff loc
000011 /*          nested procedure       when one proc is calling another proc
000012 /*                                 at different location, 15 levels of nesti
0013   /*                                                                       ng
000014 /*           symbolic parameters
000015 /*          set statment
000016 /*
****** ********************************* Bottom of Data ******************************
```

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04/16/18 02:00:38

>>> www.MainframeNation.com <<<

(-_-) (-_-) (-_-)

The Complete Mainframe Professional Course

Volume 2: JCL

TSO	- Logon to TSO/ISPF	CNM01	- Netview System
CICS	- CICS System	SA	- System Automation
IMS	- IMS System		

Enter your choice==> SET Statement

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPS) - 01.03 Columns 00001 00072

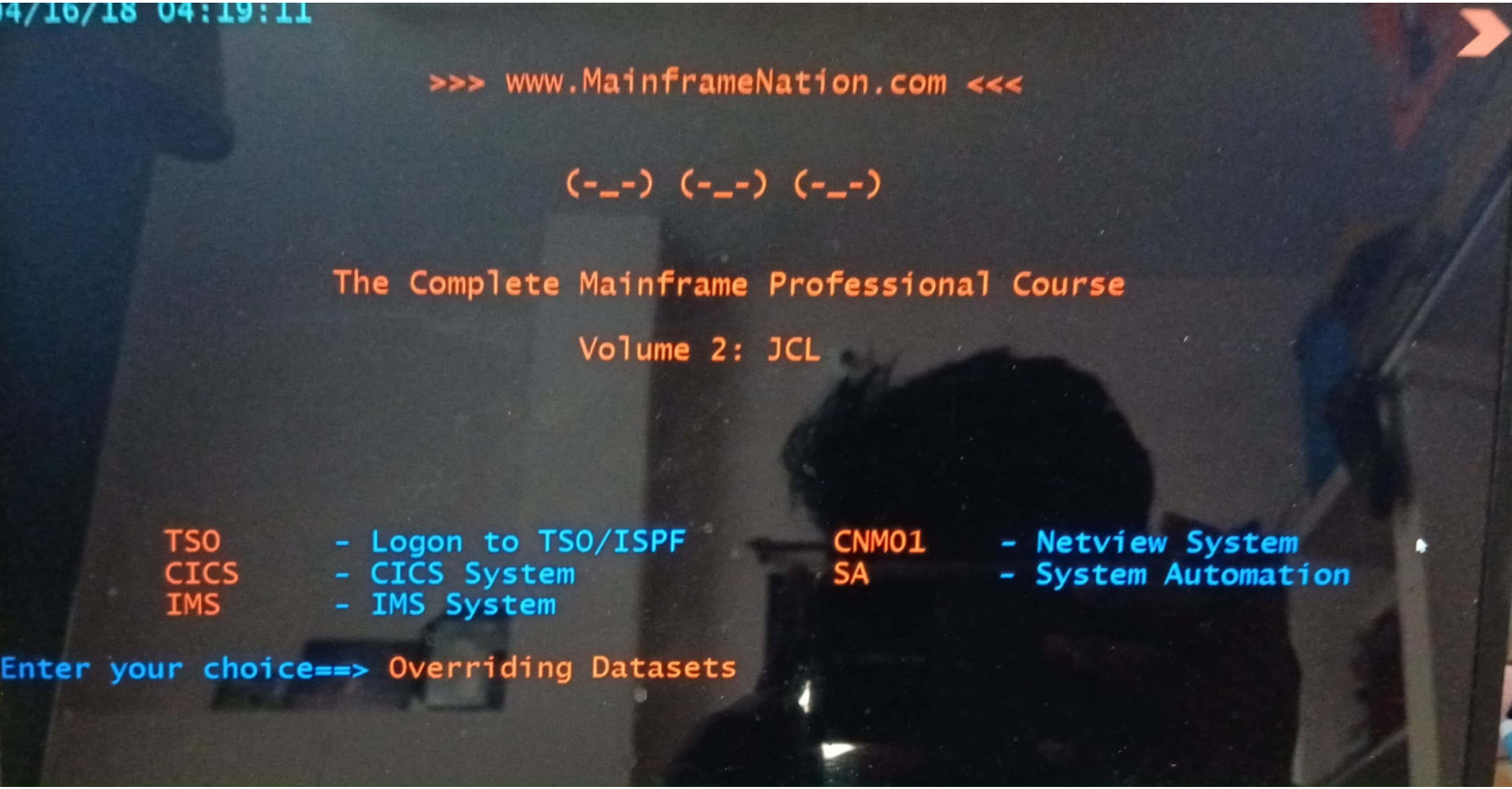
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //CREPSPR PROC
000005 //STEP1  EXEC PGM=IEFBR14
000006 //DD1      DD DSN=&FNAME..&MNAME..PS,
000007 //              DISP=(NEW,CATLG,DELETE),
000008 //              SPACE=(TRK,(100,100),RLSE),
000009 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000010 //         PEND
000011 //*
000012 //SETSTP   SET MNAME=COURSE
000013 //*
000014 //STEP2  EXEC CREPSPR,FNAME=ABHI
000015 //STEP3  EXEC CREPSPR,FNAME=ABHI1
000016 //STEP4  EXEC CREPSPR,FNAME=ABHI2
000017 //STEP5  EXEC CREPSPR,FNAME=ABHI3
000018 /*
```

****** ********** Bottom of Data **********

Scanned with CamScanner



Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.JCLLIB(CREPS) - 01.06 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //CREPS    JOB CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //CREPSPR PROC
000005 //STEP1   EXEC PGM=IEFBR14
000006 //DD1       DD DSN=ABHI.COURSE.PS1,
000007 //              DISP=(NEW,CATLG,DELETE),
000008 //              SPACE=(TRK,(100,100),RLSE),
000009 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000010 //          PEND
000011 //*
000012 //STEP2   EXEC CREPSPR
000013 //STEP1.DD1 DD DSN=ABHI.COURSE.NEWNAME,
000014 //              DISP=(NEW,CATLG,DELETE),
000015 //              SPACE=(TRK,(100,100),RLSE),
000016 //              DCB=(LRECL=80,RECFM=FB,BLKSIZE=800,DSORG=PS)
000017 /*
```

****** ********** Bottom of Data **********

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COND

MainframeNation.com

Cond = (Returncode, Operator, Stepname)

Return code can be from 0 to 4095.

Operator can be:

GT	greater than	LT	less than
EQ	equal	NE	not equal
GE	greater than or equal	LE	less than or equal

COND can be given in a JOB statement or an EXEC statement.

COND code does not work on the first step in a JCL.

E.g. of COND statements:

```
COND=(0,EQ,STEP01)
COND=(8,LE)
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>   never execute a step                         Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*       >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                 Columns 00001 00072
Command ===>                                             Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3     EXEC PGM=SORT,COND=(0,LE)
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       Z51555.JCL(JOINKEY2) - 01.07                Columns 00001 00072
Command ===> always execute a step                      Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>                                               Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*       >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3      EXEC PGM=SORT,COND=(4095,LT)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Member JOINKEY2 saved
Command ===> cond = only                                   Scroll ===> CSR
****** ***************************************** Top of Data ******************************
000001 //JOINKEY2   JOB   1,NOTIFY=&SYSUID
000002 //*
000003 //*       >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ***************************** Bottom of Data ******************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                 Columns 00001 00072
Command ===>                                             Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*       >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4      EXEC PGM=SORT,COND=EVEN
- - -  - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>                                                Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>> COND PARAMETER IN JOB STATEMENT <<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3     EXEC PGM=SORT cond=only  ---> only when abend
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4     EXEC PGM=SORT,COND=EVEN  ---> execute even if abend occur_
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Member JOINKEY2 saved
Command ===>  cond ------- if else in jcl                   Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1    JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000031 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000044 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
****** ********************************* Top of Data *********************************
000001 //IFELSE1   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*     >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1  IF  RC = 0 THEN
000019 //STEP2     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //        ENDIF
000033 //STEP3     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //STEP4     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data ******************************
```

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

```
EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>                                                Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1    JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1   IF  RC = 8 THEN
000019 //STEP2      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //          ENDIF
000033 //STEP3      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //STEP4      EXEC PGM=SORT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>  S                                            Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1  IF  RC = 8 THEN
000019 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //ELSE1   ELSE
000033 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //         ENDIF
000047 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                 Columns 00001 00072
Command ===>                                            Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1    JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1   IF  ABEND  THEN
000019 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //ELSE1    ELSE
000033 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //         ENDIF
000047 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT       Z51555.JCL(JOINKEY2) - 01.07                    Columns 00001 00072
Command ===>                                                Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*     >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1  IF  STEP1.RC < 8 THEN
000019 //STEP2     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //ELSE1   ELSE
000033 //STEP3     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //        ENDIF
000047 //STEP4     EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help

EDIT       Z51555.JCL(JOINKEY2) - 01.07                Member JOINKEY2 saved
Command ===> cond does not work on step1, if else does work  Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //IFELSE1   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*      >>>>>> IF ELSE IN JCL <<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000018 //CHECK1  IF  STEP4.RC < 8 THEN
000019 //STEP2      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000032 //ELSE1   ELSE
000033 //STEP3      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
000046 //         ENDIF
000047 //STEP4      EXEC PGM=SORT
- - -  - - - - - - - - - - - - - - - - - - - - - - 12 Line(s) not Displayed
****** ********************************* Bottom of Data *****************************
```

Scanned with CamScanner

SORT

SORT Syntax

```
//---------JOBCARD--------
//STEP1    EXEC PGM=SORT
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR          <------- INPUT DATASET
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR   <------- OUTPUT DATASET
-----------------------
//SYSIN    DD   *
          SORT FIELDS=(55,4,CH,A)          <------- SORT CARD
/*
```

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT2) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR

```
****** ********************************* Top of Data ********************************
000001 //SORT2     JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //               PRTY=15
000003 //*
000004 //*          >>>>>>  SORT MULTIPLE FIELDS <<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=(89,14,CH,D,155,4,CH,D)
000013 /*
****** ********************************* Bottom of Data *****************************
```

4I 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT3) - 01.02 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT3     JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //STEP1     EXEC PGM=SORT
000004 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000005 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000006 //SYSPRINT  DD   SYSOUT=*
000007 //SYSOUT    DD   SYSOUT=*
000008 //SYSIN     DD   *
000009            SORT FIELDS=(149,4,CH,D,155,5,CH,D)
000010 /*
```

****** ********** Bottom of Data **********

4I 0 15,9

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

```
EDIT       ABHI.COURSE.SORTJCL(SORT3) - 01.02              Columns 00001 00072
Command ===> SAVE                                           Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //SORT3     JOB   CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //STEP1     EXEC  PGM=SORT
000004 //SORTIN    DD    DSN=ABHI.COURSE.IMDB,DISP=SHR
000005 //SORTOUT   DD    DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000006 //SYSPRINT  DD    SYSOUT=*
000007 //SYSOUT    DD    SYSOUT=*
000008 //SYSIN     DD    *
000009            SORT  FORMAT=CH,FIELDS=(149,4,D,155,5,D)
000010 /*
****** ********************************* Bottom of Data *****************************
```

4I X 0 4,19

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT4) - 01.02 Columns 00001 00072
Command ===> SUB Scroll ===> CSR

```
000001 //SORT4     JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*              >>>>>>>>> COPY A DATASET <<<<<<<<<<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012                 SORT FIELDS=COPY
000013 /*
```

Top of Data

Bottom of Data

4I 0 21,1

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT4) - 01.03 Member SORT4 saved

Command ===> SU Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT4    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //             PRTY=15
000003 //*
000004 //*            >>>>>>>>> COPY A DATASET <<<<<<<<<<<<<<<
000005 //*
000006 //STEP1    EXEC PGM=SORT
000007 //SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT DD   SYSOUT=*
000010 //SYSOUT   DD   SYSOUT=*
000011 //SYSIN    DD   *
000012                OPTION COPY
000013 /*
```

****** ********** Bottom of Data **********

4I 0 4,16

SORT

SORT with INCLUDE Syntax

```
//----------JOBCARD---------
//STEP1    EXEC PGM=SORT
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR          <------- INPUT DATASET
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR   <------- OUTPUT DATASET
//-----------------------
//SYSIN    DD   *
          SORT FIELDS=(55,4,CH,A)                <------- SORT CARD
           INCLUDE COND=(55,4,CH,GT,C'2018)
/*
```

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SORT

SORT with multiple INCLUDE Syntax

```
//==========JOBCARD=========
//STEP1    EXEC PGM=SORT
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR            <------- INPUT DATASET
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR     <------- OUTPUT DATASET
//SYSIN    DD   *
          SORT FIELDS=(55,4,CH,A)                <------- SORT CARD
           INCLUDE COND=(55,4,CH,GT,C'2018',AND,219,1,CH,EQ,C'Y')
/*
```

You can use

AND – both the conditions should satisfy.

OR – any of the conditions should satisfy

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SORT

SORT with OMIT Syntax

```
//----------JOBCARD---------
//STEP1    EXEC PGM=SORT
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR          <------- INPUT DATASET
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR   <------- OUTPUT DATASET
.............................
//SYSIN    DD   *
          SORT FIELDS=(55,4,CH,A)              <------- SORT CARD
           OMIT COND=(55,4,CH,GT,C'2018')
/*
```

You can use

AND – both the conditions should satisfy.

OR – any of the conditions should satisfy

Scanned with CamScanner

SORT

File 1	File 2
Albert	Albert
Dennis	Dennis
Gary	Gary
Jake	Matt
Kyle	

3 records are common

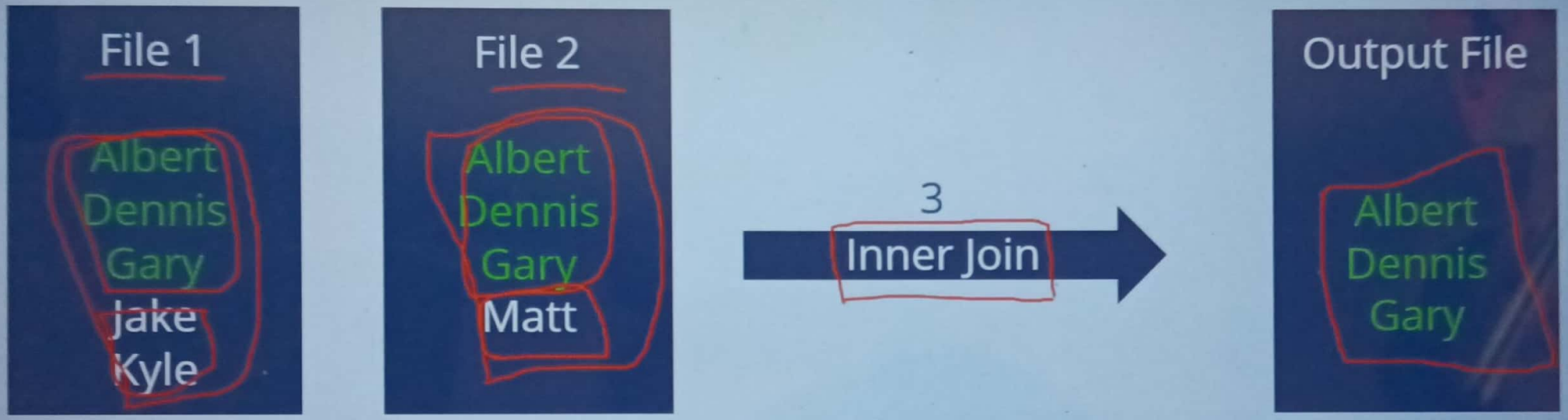
Matching records are called Paired

Unmatching records are called Unpaired

Inner Join = Only Paired records are copied

Scanned with CamScanner

SORT



3 records are common

Matching records are called Paired

Unmatching records are called Unpaired

Inner Join = Only Paired records are copied

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT Z51555.JCL(JOINKEY) - 01.11 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //JOINKEY   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*          >>> INNER JOIN USING JOINKEYS <<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
000006 //DD1       DD   DISP=SHR,DSN=Z51555.IP1  <-- INPUT DATASET
000007 //DD2       DD   DISP=SHR,DSN=Z51555.IP2  <-- INPUT DATASET
000008 //SORTOUT   DD   DISP=SHR,DSN=Z51555.OUT  <-- OUTPUT DATASET
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=COPY
000013            JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014            JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015            REFORMAT FIELDS=(F1:1,10,F2:1,10)
000016 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 5,16

Scanned with CamScanner

SORT

File 1

Albert
Dennis
Gary
Jake
Kyle

File 2

Albert
Dennis
Gary
Matt

3 + 2

Left Outer Join

Output File

Albert
Dennis
Gary
Jake
Kyle

Left Outer Join = Paired + Unpaired from F1

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT Z51555.JCL(JOINKEY3) - 01.03 Member JOINKEY3 saved

Command ===> S Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //JOINKEY3  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*            >>> LEFT OUTER JOIN  <<<<<<<<<<<
000004 //*
000005 //STEP1      EXEC PGM=SORT
000006 //DD1        DD   DSN=Z51555.IP1,DISP=SHR
000007 //DD2        DD   DSN=Z51555.IP2,DISP=SHR
000008 //SORTOUT    DD   DSN=Z51555.OUT,DISP=SHR
000009 //SYSPRINT   DD   SYSOUT=*
000010 //SYSOUT     DD   SYSOUT=*
000011 //SYSIN      DD   *
000012         SORT FIELDS=COPY
000013         JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014         JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015         JOIN UNPAIRED,F1
000016         REFORMAT FIELDS=(F1:1,10,F2:1,10)
000017 /*
```

****** ********** Bottom of Data **********

41 0 4,15

Scanned with CamScanner

SORT

File 1

Albert
Dennis
Gary
Jake
Kyle

File 2

Albert
Dennis
Gary
Matt

3 + 1

Right Outer Join

Output File

Albert
Dennis
Gary
Matt

Right Outer Join = Paired + Unpaired from F2

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

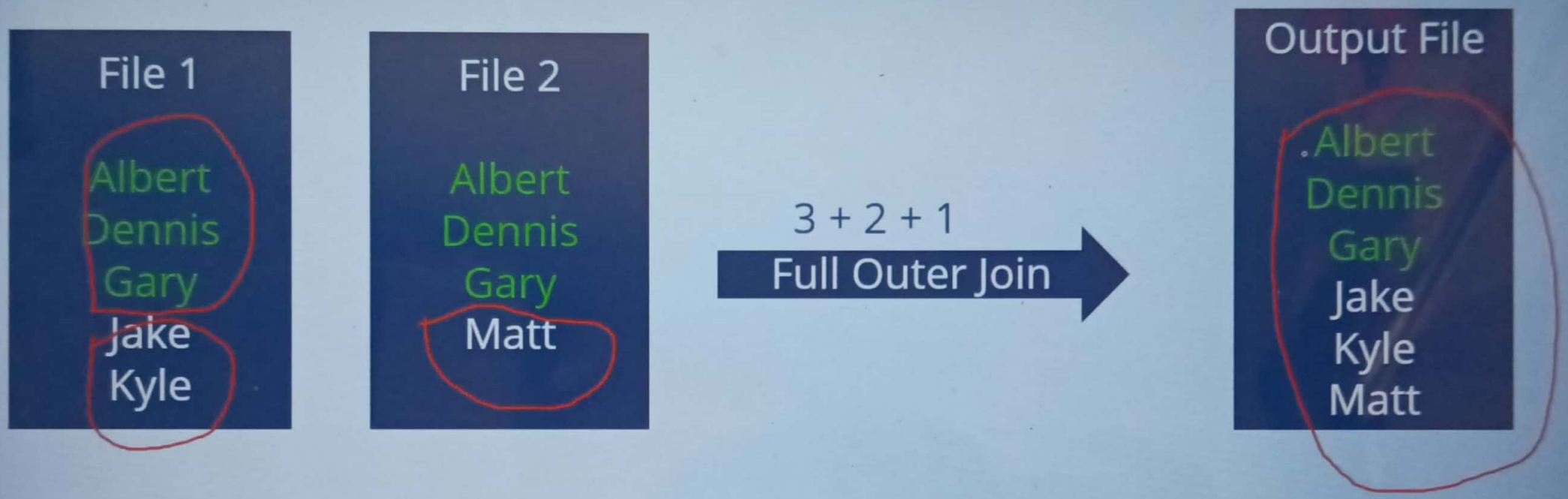
EDIT Z51555.JCL(JOINKEY5) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR

```
****** ********************************* Top of Data ********************************
000001 //JOINKEY5  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*          >>>>>>> RIGHT OUTER JOIN  <<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
000006 //DD1       DD   DSN=Z51555.IP1,DISP=SHR
000007 //DD2       DD   DSN=Z51555.IP2,DISP=SHR
000008 //SORTOUT   DD   DSN=Z51555.OUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012        SORT FIELDS=COPY
000013        JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014        JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015        JOIN UNPAIRED,F2
000016        REFORMAT FIELDS=(F1:1,10,F2:1,10)
000017 /*
****** ********************************* Bottom of Data *****************************
```

4I ⇨ 0 4,15

Scanned with CamScanner

SORT



Full Outer Join = Paired + Unpaired from F1 + Unpaired from F2

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT Z51555.JCL(JOINKEY6) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR
****** ********** Top of Data **********

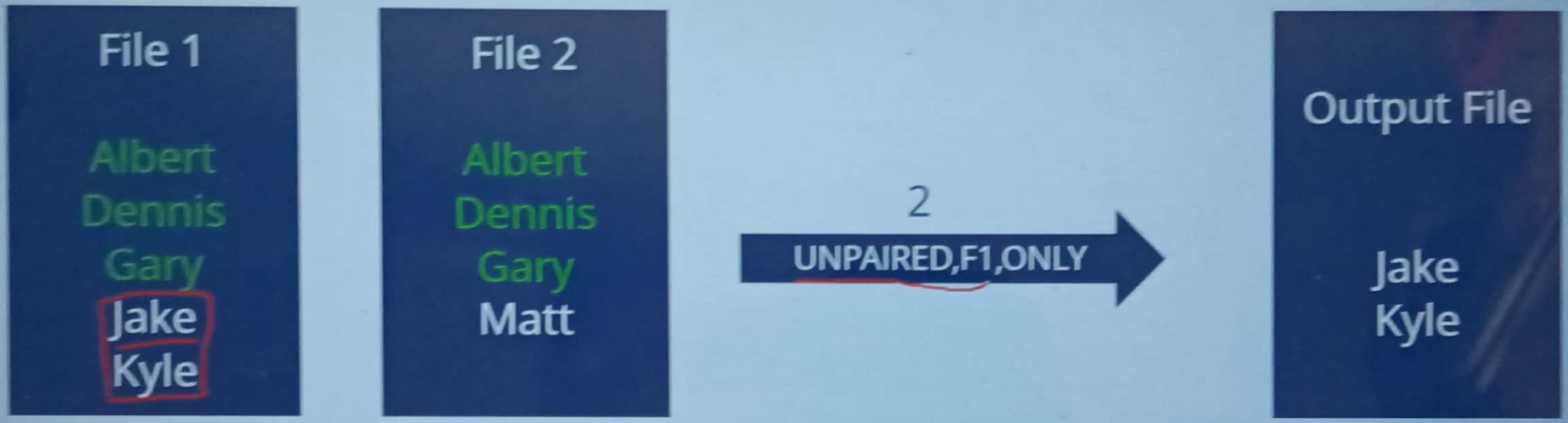
```
000001 //JOINKEY6  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*                >>>>>> FULL OUTER JOIN   <<<<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
000006 //DD1       DD   DSN=Z51555.IP1,DISP=SHR
000007 //DD2       DD   DSN=Z51555.IP2,DISP=SHR
000008 //SORTOUT   DD   DSN=Z51555.OUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012        SORT FIELDS=COPY
000013        JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014        JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015        JOIN UNPAIRED,F1,F2
000016        REFORMAT FIELDS=(F1:1,10,F2:1,10)
000017 /*
```

****** ********** Bottom of Data **********

4I 0 4,15

Scanned with CamScanner

SORT



Only Unpaired records from F1

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT Z51555.JCL(JOINKEY4) - 01.02 Member JOINKEY4 saved

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

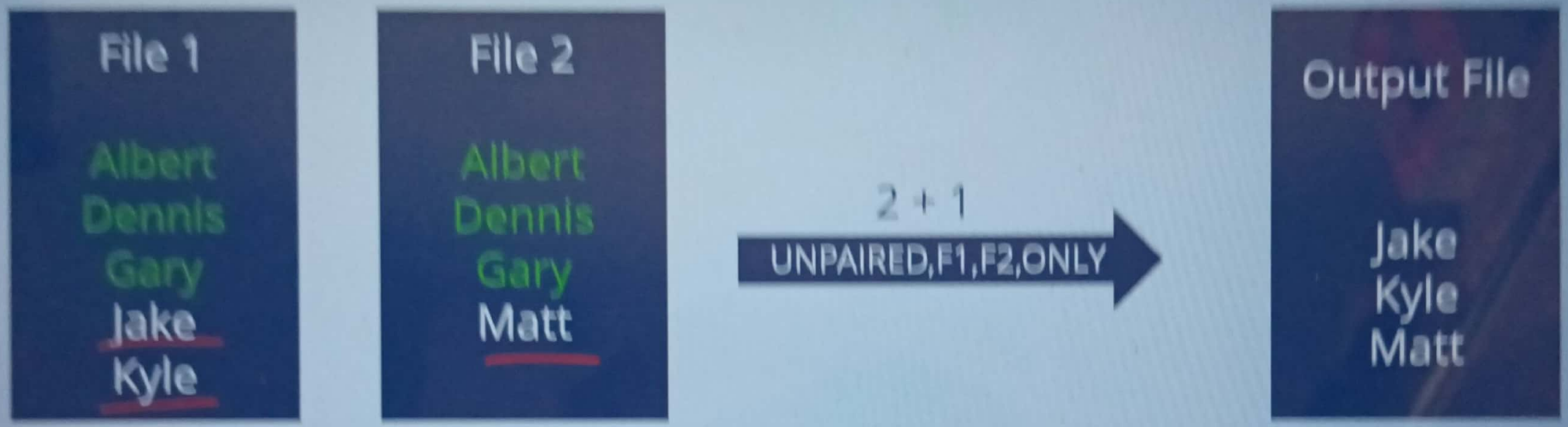
```
000001 //JOINKEY   JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*     >>>>>   GET ONLY UNPAIRED RECORDS FROM FILE1  <<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
000006 //DD1       DD   DSN=Z51555.IP1,DISP=SHR
000007 //DD2       DD   DSN=Z51555.IP2,DISP=SHR
000008 //SORTOUT   DD   DSN=Z51555.OUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012                 SORT FIELDS=COPY
000013                 JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014                 JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015                 JOIN UNPAIRED,F1,ONLY
000016                 REFORMAT FIELDS=(F1:1,10,F2:1,10)
000017 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15

Scanned with CamScanner

SORT



Only Unpaired records from F1 and F2

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT Z51555.JCL(JOINKEY2) - 01.02 Member JOINKEY2 saved

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //JOINKEY2  JOB  1,NOTIFY=&SYSUID
000002 //*
000003 //*       >>>> JOIN UNPAIRED FROM BOTH F1 AND F2  <<<<<<<<<
000004 //*
000005 //STEP1     EXEC PGM=SORT
000006 //DD1       DD   DSN=Z51555.IP1,DISP=SHR
000007 //DD2       DD   DSN=Z51555.IP2,DISP=SHR
000008 //SORTOUT   DD   DSN=Z51555.OUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012              SORT FIELDS=COPY
000013              JOINKEYS F1=DD1,FIELDS=(1,10,A)
000014              JOINKEYS F2=DD2,FIELDS=(1,10,A)
000015              JOIN UNPAIRED,F1,F2,ONLY
000016              REFORMAT FIELDS=(F1:1,10,F2:1,10)
000017 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15

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SORT

SORT with OUTREC Syntax

```
//---------JOBCARD---------
//STEP1    EXEC PGM=SORT
//SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR          <------- INPUT DATASET
//SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR   <------- OUTPUT DATASET
//SYSIN    DD   *
         SORT FIELDS=(55,4,CH,A)                <------- SORT CARD
         OUTREC FIELDS=(55,4)
/*
```

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=(149,4,BI,D)
000013            OUTREC FIELDS=(149,4)
000014 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.02 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=(149,4,BI,D)
000013            OUTREC FIELDS=(149,4,155,4)
000014 /*
```

****** ********** Bottom of Data **********

4I 0 5,9

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR
****** ********** Top of Data **********

```
000001 //SORT12   JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //             PRTY=15
000003 //*
000004 //*        >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1    EXEC PGM=SORT
000007 //SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT DD   SYSOUT=*
000010 //SYSOUT   DD   SYSOUT=*
000011 //SYSIN    DD   *
000012          SORT FIELDS=(149,4,BI,D)
000013          OUTREC FIELDS=(149,4,X,155,4)
000014 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 5,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 2020
000002 2020
000003 2019 5.3
000004 2019 6.1
000005 2019 7.7
000006 2019 6.6
000007 2019 7.6
000008 2019 6.9
000009 2019 5.7
000010 2019 5.3
000011 2019 6.9
000012 2019 5.8
000013 2019 6.4
000014 2019 5.9
000015 2019 6.3
000016 2019 6.8
000017 2019 6.4
000018 2019 7.3
000019 2019 7.3
```

31 0 4.15

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.02 Columns 00001 000

Command ===> sva Scroll ===> CSI

****** ********** Top of Data **********

```
000001 //SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=(149,4,BI,D)
000013            OUTREC FIELDS=(149,4,8X,155,4)
000014 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,18

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

000001	2020	
000002	2020	
000003	2019	5.3
000004	2019	6.1
000005	2019	7.7
000006	2019	6.6
000007	2019	7.6
000008	2019	6.9
000009	2019	5.7
000010	2019	5.3
000011	2019	6.9
000012	2019	5.8
000013	2019	6.4
000014	2019	5.9
000015	2019	6.3
000016	2019	6.8
000017	2019	6.4
000018	2019	7.3
000019	2019	7.3

I 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.03 Columns 00001 00072
Command ===> save Scroll ===> CSR

```
****** ********************************* Top of Data ********************************
000001 //SORT12   JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //             PRTY=15
000003 //*
000004 //*        >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1    EXEC PGM=SORT
000007 //SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT DD   SYSOUT=*
000010 //SYSOUT   DD   SYSOUT=*
000011 //SYSIN    DD   *
000012          SORT FIELDS=(149,4,BI,D)
000013          OUTREC FIELDS=(8X,149,4,8X,155,4)
000014 /*
****** ********************************* Bottom of Data *****************************
```

4I ⇨ 0 4,26

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

000001	2020	
000002	2020	
000003	2019	5.3
000004	2019	6.1
000005	2019	7.7
000006	2019	6.6
000007	2019	7.6
000008	2019	6.9
000009	2019	5.7
000010	2019	5.3
000011	2019	6.9
000012	2019	5.8
000013	2019	6.4
000014	2019	5.9
000015	2019	6.3
000016	2019	6.8
000017	2019	6.4
000018	2019	7.3
000019	2019	7.3

4I ⇨ 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.04 Member SORT12 saved

Command ===> Scroll ===> CSR

```
****** ********************************* Top of Data ********************************
//SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
//             PRTY=15
//*
//*         >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
//*
//STEP1     EXEC PGM=SORT
//SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
//SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
//SYSPRINT  DD   SYSOUT=*
//SYSOUT    DD   SYSOUT=*
//SYSIN     DD   *
            SORT FIELDS=(149,4,BI,D)
            OUTREC BUILD=(8X,149,4,8X,155,4)
/*
****** ********************************* Bottom of Data *****************************
```

4I ⇨ 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00001 00072

Command ===> r Scroll ===> CSR

****** ********** Top of Data **********

==MSG> -CAUTION- Data contains invalid (non-display) characters. Use command

==MSG> ===> FIND P'.' to position cursor to these

000001	2020	
000002	2020	
000003	2019	5.3
000004	2019	6.1
000005	2019	7.7
000006	2019	6.6
000007	2019	7.6
000008	2019	6.9
000009	2019	5.7
000010	2019	5.3
000011	2019	6.9
000012	2019	5.8
000013	2019	6.4
000014	2019	5.9
000015	2019	6.3
000016	2019	6.8
000017	2019	6.4

4T 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT12) - 01.05 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT12    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>> OUTREC ONLY SPECIFIC COLUMNS <<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT   DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012            SORT FIELDS=(149,4,BI,D)
000013            OUTREC BUILD=(9:149,4,30:155,4)
000014 /*
```

****** ********** Bottom of Data **********

4T 0 20,9

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00001 00072

Command ===> Scroll ===> CSR

=COLS> ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--

****** ********** Top of Data **********

000001	2020	
000002	2020	
000003	2019	5.3
000004	2019	6.1
000005	2019	7.7
000006	2019	6.6
000007	2019	7.6
000008	2019	6.9
000009	2019	5.7
000010	2019	5.3
000011	2019	6.9
000012	2019	5.8
000013	2019	6.4
000014	2019	5.9
000015	2019	6.3
000016	2019	6.8
000017	2019	6.4
000018	2019	7.3

4T ⇨ 0 4.15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT22) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR
****** ********** Top of Data **********

```
000001 //SORT22   JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //             PRTY=15
000003 //*
000004 //*     >>>>>>> OUTREC using FINDREP <<<<<<<<<<
000005 //*
000006 //STEP1    EXEC PGM=SORT
000007 //SORTIN   DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOUT  DD   DSN=ABHI.COURSE.IMDB.OUTPUT,DISP=SHR
000009 //SYSPRINT DD   SYSOUT=*
000010 //SYSOUT   DD   SYSOUT=*
000011 //SYSIN    DD   *
000012              OPTION COPY
000013              OUTREC FINDREP=(IN=C'Feature Film',OUT=C'Movie')
000014 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15

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File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.IMDB.OUTPUT Columns 00073 00144

Command ===> Scroll ===> CSR

```
000640                    Movie  Victor Sjöström                          191
000641                    Movie  Cecil B. DeMille, Joseph Levering         191
000642                    Movie  Nino Oxilia                              191
000643                    Movie  Ruth Ann Baldwin                         191
000644                    Movie  Maurice Tourneur                         191
000645                    Movie  Maurice Tourneur                         191
000646                    Movie  John Emerson                             191
000647                    Movie  Elsie Jane Wilson, Rupert Julian         191
000648                    Movie  Baburao Painter                          191
000649                    Movie  Victor Sjöström                          191
000650                    Movie  Marshall Neilan                          191
000651                    Movie  F. Richard Jones, James Young            191
000652                    Movie  Ernst Lubitsch                           191
000653                    Movie  Scott Sidney                             191
000654                    Movie  Holger-Madsen                            191
000655                    Movie  Ida May Park                             191
000656                    Movie  Elsie Jane Wilson                        191
000657                    Movie  Madeline Brandeis                        191
000658                    Movie  Ida May Park                             191
000659                    Movie  D.W. Griffith                            191
```

4T ⇨ 0 4,15

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Create Multiple Copies of a dataset

```
File  Edit  Edit_Settings  Menu  Utilities  Compilers  Test  Help
EDIT  ABHI.COURSE.SORT.JCL(SORT26) - 01.08                Member SORT26 saved
Command ===>                                              Scroll ===> CSR
****** ********************************* Top of Data ********************************
000001 //SORT26    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //              PRTY=15
000003 //*
000004 //*          >>>>>>>> MULTIPLE COPIES USING OUTFIL <<<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOF01  DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR
000009 //SORTOF02  DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR
000010 //SORTOF03  DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR
000011 //SYSPRINT  DD   SYSOUT=*
000012 //SYSOUT    DD   SYSOUT=*
000013 //SYSIN     DD   *
000014          OPTION COPY
000015          OUTFIL FILES=(01,02,03)
000016 /*
****** ********************************* Bottom of Data *****************************
4T                                                  0      4,15
```

Create Multiple Copies of a dataset

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT27) - 01.02 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT27    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*    >>>>>>>>>> SPLIT A DATASET INTO EQUAL PARTS <<<<<<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOF01  DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR
000009 //SORTOF02  DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR
000010 //SORTOF03  DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR
000011 //SYSPRINT  DD   SYSOUT=*
000012 //SYSOUT    DD   SYSOUT=*
000013 //SYSIN     DD   *
000014            OPTION COPY
000015            OUTFIL FILES=(01,02,03),SPLIT
000016 /*
```

****** ********** Bottom of Data **********

0 4,19

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT25) - 01.04 Columns 00001 00072

Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT25    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>>>>  SPLIT FILE BASED ON CONDITION  <<<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //SORTOF01  DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR
000009 //SORTOF02  DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR
000010 //SORTOF03  DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR
000011 //SYSPRINT  DD   SYSOUT=*
000012 //SYSOUT    DD   SYSOUT=*
000013 //SYSIN     DD   *
000014            OPTION COPY
000015            OUTFIL FILES=01,INCLUDE=(149,4,CH,EQ,C'2017')
000016            OUTFIL FILES=02,INCLUDE=(149,4,CH,EQ,C'2018')
000017            OUTFIL FILES=03,INCLUDE=(149,4,CH,EQ,C'2019')
000018 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 4,15

Scanned with CamScanner

File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT ABHI.COURSE.SORTJCL(SORT26) - 01.05 Columns 00001 00072
Command ===> Scroll ===> CSR

****** ********** Top of Data **********

```
000001 //SORT26    JOB  CLASS=A,MSGCLASS=A,NOTIFY=&SYSUID,MSGLEVEL=(1,1),
000002 //                PRTY=15
000003 //*
000004 //*          >>>>>>>> MULTIPLE COPIES USING OUTFIL <<<<<<<
000005 //*
000006 //STEP1     EXEC PGM=SORT
000007 //SORTIN    DD   DSN=ABHI.COURSE.IMDB,DISP=SHR
000008 //YEAR17    DD   DSN=ABHI.COURSE.IMDB.Y2017,DISP=SHR
000009 //YEAR18    DD   DSN=ABHI.COURSE.IMDB.Y2018,DISP=SHR
000010 //YEAR19    DD   DSN=ABHI.COURSE.IMDB.Y2019,DISP=SHR
000011 //SYSPRINT  DD   SYSOUT=*
000012 //SYSOUT    DD   SYSOUT=*
000013 //SYSIN     DD   *
000014            OPTION COPY
000015            OUTFIL FNAMES=(YEAR17,YEAR18,YEAR19)
000016 /*
```

****** ********** Bottom of Data **********

4I ⇨ 0 20,26

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Utilities

Utilities are simple programs supplied with Operating system.

They perform commonly needed functions for maintenance of the system or datasets.

Utilities are of two types

1. Dataset Utilities – Used to perform tasks on datasets

   Their name starts with IEB

   E.g. IEBCOPY, IEBEDIT

2. System Utilities – Used to perform tasks for maintenance of the system

   Their name starts with IEH

   E.g. IEHMOVE, IEHPROGM

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Dataset Utilities

- IEBCOPY
- IEBEDIT
- IEBCOMPR
- IEBDG
- IEBGENER
- IEBPTPCH
- IEBUPDTE
- IDCAMS

System Utilities

- IEHMOVE
- IEHLIST
- IEHINITT
- IEHPROGM
- ICKDSF

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Common JCL DDnames

- SYSUT1 input file
- SYSUT2 output file
- SYSUDUMP file for a system 'dump' if the program fails
- SYSUT3 work (spill) file for input (SYSUT1)
- SYSUT4 work (spill) file for output (SYSUT2)

- SYSPRINT file for printed output from the utility
- SYSOUT messages from the utility
- SYSIN used for passing 'commands' for the utility

Scanned with CamScanner

Summary

- Utilities are simple programs supplied with Operating system.
- They perform commonly needed functions for maintenance of the system or datasets.

1. Dataset Utilities – Used to perform tasks on datasets. Their name starts with IEB E.g. IEBCOPY, IEBEDIT

2. System Utilities – Used to perform tasks for maintenance of the system. Their name starts with IEH E.g. IEHMOVE, IEHLIST

- Common DDnames used in a utility are

SYSUT1	input file
SYSUT2	output file
SYSUDUMP	file for a system 'dump' if the program fails
SYSUT3	work (spill) file for input (SYSUT1)
SYSUT4	work (spill) file for output (SYSUT2)
SYSPRINT	file for printed output from the utility
SYSOUT	messages from the utility
SYSIN	used for passing 'commands' for the utility

Scanned with CamScanner

IEBCOMPR – Compare Data Sets Program

It is used to compare PS, PDS and PDSE data sets.

It is useful for verifying backups.

PS are identical if

- The data sets contain the same number of records.
- Corresponding records are identical.

Two partitioned data sets or two PDSEs are considered equal if

- Corresponding members contain the same number of records.
- Corresponding records are identical.

Scanned with CamScanner

IEBCOMPR – Compare Data Sets Program

Syntax of IEBCOMPR:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOMPR
//SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR      <-------DATASETS TO BE COMPARED
//SYSUT2    DD   DSN=ABHI.COURSE.PS2,DISP=SHR      <-------DATASETS TO BE COMPARED
_______________________
_______________________
//SYSIN     DD   *
           COMPARE TYPORG=PS            <------- PS FOR PS DATASETS
                        PO              <------- PO FOR PDS DATASETS
/*
```

Scanned with CamScanner

IEBCOMPR – Compare Data Sets Program

Return code : 0 ------- If the files are identical

8 ------- If the files are not identical

Scanned with CamScanner

Summary

It is used to compare PS, PDS and PDSE data sets.

It is useful for verifying backups.

PS are identical if

- The data sets contain the same number of records.
- Corresponding records are identical.

Two partitioned data sets or two PDSEs are considered equal if

- Corresponding members contain the same number of records.
- Corresponding records are identical.

TYPORG=PS for sequential file,

TYPORG=PO for PDS, PDSE files

Return code : 0 ------- If the files are identical
8 ------- If the files are not identical

Scanned with CamScanner

IEBCOPY – Library Copy Program

It is a Library Copy utility that can copy, merge or compress datasets.

It can be used for

- Copy of a PDS.
- Merge PDS.
- Compress a PDS.
- Copy specific members of a PDS.
- Replace members of a PDS.
- Rename selected members of PDS while copying.
- Exclude members from a data set to be copied.

Scanned with CamScanner

IEBCOPY – Library Copy Program

Syntax of IEBCOPY:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
.............................
//SYSIN     DD   *
            COPY OUTDD=DD2          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
/*
```

Multiple INDD can be given if required:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR
.............................
//SYSIN     DD   *
            COPY OUTDD=DD3          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
                 INDD=DD2           <------- INPUT DATASET
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBCOPY2) - 1.01                COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===>
****** ********************************* TOP OF DATA *********************************
000001 //COPY2     JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //STEP1     EXEC  PGM=IEBCOPY
000003 //IN1       DD    DSN=ABHI.COURSE.PDS1,DISP=SHR
000004 //IN2       DD    DSN=ABHI.COURSE.PDS2,DISP=SHR
000005 //IN3       DD    DSN=ABHI.COURSE.PDS3,DISP=SHR
000006 //OUT       DD    DSN=ABHI.COURSE.PDS4 DISP=SHR
000007 //SYSPRINT  DD    SYSOUT=*
000008 //SYSOUT    DD    SYSOUT=*
000009 //SYSIN     DD    *
000010                COPY OUTDD=OUT
000011                     INDD=IN1
000012                     INDD=IN2
000013                     INDD=IN3
000014 /*
****** ********************************* BOTTOM OF DATA ******************************
                                                                          7800K FREE
4I                                                   0        9,38
```

Scanned with CamScanner

Summary

It is a Library Copy utility that can copy, merge or compress datasets.

It can be used for

- Copy, Merge, Compress of a PDS.
- Copy specific members of a PDS.
- Replace members of a PDS.
- Rename selected members of PDS while copying.
- Exclude members from a data set to be copied.

Syntax of IEBCOPY is

```
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR
.........................
//SYSIN     DD   *
            COPY OUTDD=DD3          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
                 INDD=DD2           <------- INPUT DATASET
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

Syntax of IEBCOPY:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
.................................
//SYSIN     DD   *
            COPY OUTDD=DD2          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
/*
```

Another way to do the same operation is:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//SYSUT1    DD   DSN=ABHI.COURSE.PDS1,DISP=SHR        <------- INPUT DATASET
//SYSUT2    DD   DSN=ABHI.COURSE.PDS2,DISP=SHR        <------- OUTPUT DATASET
.................................
//SYSIN     DD   DUMMY
/*
```

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Summary

Syntax of IEBCOPY is

```
//STEP1    EXEC PGM=IEBCOPY
//DD1      DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2      DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
_______________
//SYSIN    DD   *
           COPY OUTDD=DD2          <------- OUTPUT DATASET
                INDD=DD1           <------- INPUT DATASET
/*
```

SYSIN is not required if SYSUT1 is given:

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBCOPY
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1,DISP=SHR   <------- INPUT DATASET
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2,DISP=SHR   <------- OUTPUT DATASET
_______________
//SYSIN    DD   DUMMY
/*
```

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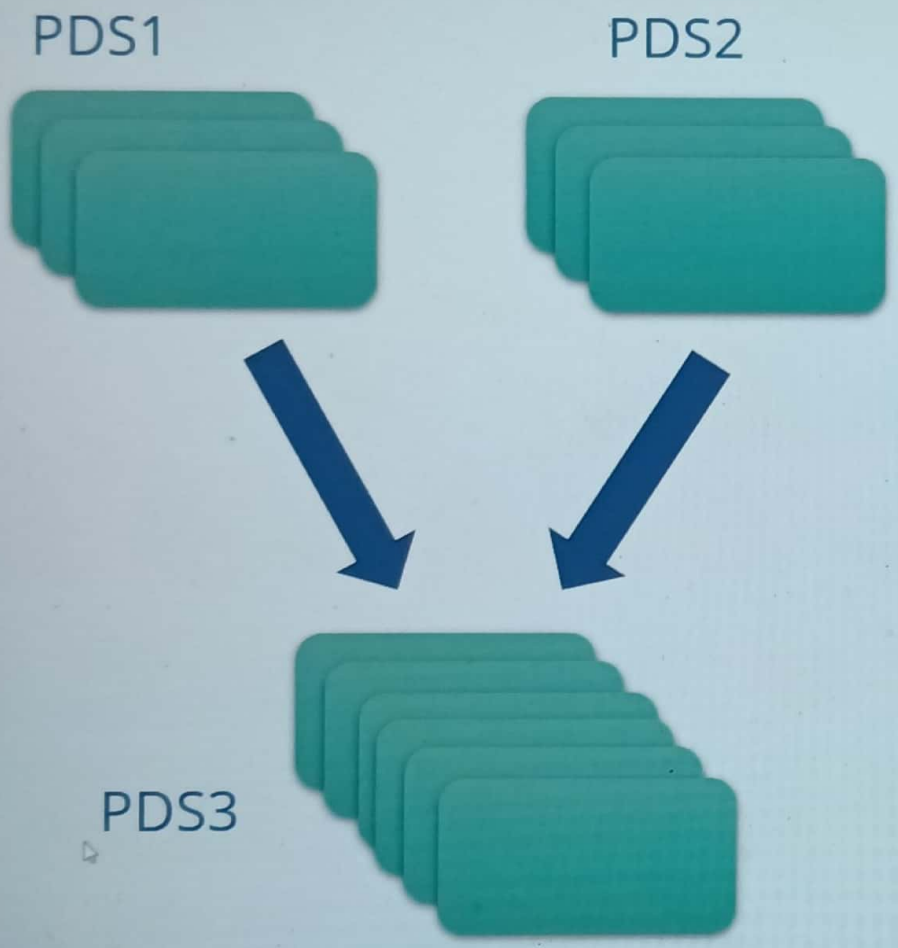
IEBCOPY – Library Copy Program



Merge Operation

Scanned with CamScanner

IEBCOPY – Library Copy Program

Multiple INDD should be given:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR
-------------------------
//SYSIN     DD   *
            COPY OUTDD=DD3          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
                 INDD=DD2           <------- INPUT DATASET
/*
```

Scanned with CamScanner

Summary

Syntax of IEBCOPY is

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR
.............................
//SYSIN     DD   *
            COPY OUTDD=DD3          <------- OUTPUT DATASET
                 INDD=DD1           <------- INPUT DATASET
                 INDD=DD2           <------- INPUT DATASET
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

SELECT statement can be used to copy only the members we want to copy.

SELECTive Copy Syntax

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR      <------- INPUT DATASET
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR      <------- INPUT DATASET
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR      <------- OUTPUT DATASET
//SYSIN     DD   *
            COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
                 INDD=DD1                     <------- DD NAME OF INPUT DATASET
                 INDD=DD2                     <------- DD NAME OF INPUT DATASET
          SELECT MEMBER=(MEMBER1,MEMBER4)     <------- MEMBERS NAMES TO BE COPIED
/*
```

Scanned with CamScanner

Summary

SELECT statement can be used to copy only the members we want to copy.

SELECTive Copy Syntax

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBCOPY
//DD1      DD   DSN=ABHI.COURSE.PDS1,DISP=SHR     <------- INPUT DATASET
//DD2      DD   DSN=ABHI.COURSE.PDS2,DISP=SHR     <------- INPUT DATASET
//DD3      DD   DSN=ABHI.COURSE.PDS3,DISP=SHR     <------- OUTPUT DATASET
.............................
//SYSIN    DD   *
          COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
               INDD=DD1                     <------- DD NAME OF INPUT DATASET
               INDD=DD2                    <------- DD NAME OF INPUT DATASET
        SELECT MEMBER=(MEMBER1,MEMBER4) <------- MEMBERS NAMES TO BE COPIED
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

EXCLUDE statement can be used to ignore some members while copying

EXCLUDE Syntax

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBCOPY
//DD1      DD   DSN=ABHI.COURSE.PDS1,DISP=SHR     <------- INPUT DATASET
//DD2      DD   DSN=ABHI.COURSE.PDS2,DISP=SHR     <------- INPUT DATASET
//DD3      DD   DSN=ABHI.COURSE.PDS3,DISP=SHR     <------- OUTPUT DATASET
//SYSIN    DD   *
           COPY OUTDD=DD3                  <------- DD NAME OF OUTPUT DATASET
                INDD=DD1                   <------- DD NAME OF INPUT DATASET
                INDD=DD2                   <------- DD NAME OF INPUT DATASET
       EXCLUDE MEMBER=(MEMBER1,MEMBER4)    <------- MEMBERS TO BE IGNORED WHILE COPYING
/*
```

Scanned with CamScanner

Summary

EXCLUDE statement can be used to ignore some members while copying

EXCLUDE Syntax

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR      <------- INPUT DATASET
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR      <------- INPUT DATASET
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR      <------- OUTPUT DATASET
//SYSIN     DD   *
           COPY OUTDD=DD3                  <------- DD NAME OF OUTPUT DATASET
                 INDD=DD1                  <------- DD NAME OF INPUT DATASET
                INDD=DD2                  <------- DD NAME OF INPUT DATASET
      EXCLUDE MEMBER=(MEMBER1,MEMBER4)   <----- MEMBERS TO BE IGNORED WHILE COPYING
/*
```

Scanned with CamScanner

```
REVEDIT  DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===> SUBM                                             SCROLL ===> CSR
****** ********************************* TOP OF DATA ***********************************
000001 //IEBCOPY6 JOB CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*            >> COMPRESS A PDS <<
000004 //*
000005 //STEP1     EXEC PGM=IEBCOPY
000006 //DD1       DD   DSN=ABHI.COURSE.PDS5,DISP=SHR  <-- DATASET TO COMPRESS
000007 //SYSPRINT  DD   SYSOUT=*
000008 //SYSOUT    DD   SYSOUT=*
000009 //SYSIN     DD   *
000010            COPY OUTDD=DD1    <--- SAME DDNAME IN INDD AND OUTDD
000011                 INDD=DD1
000012 /*
****** ******************************** BOTTOM OF DATA *********************************
                                                                          7800K FREE
4T                                                   0        2,19
```

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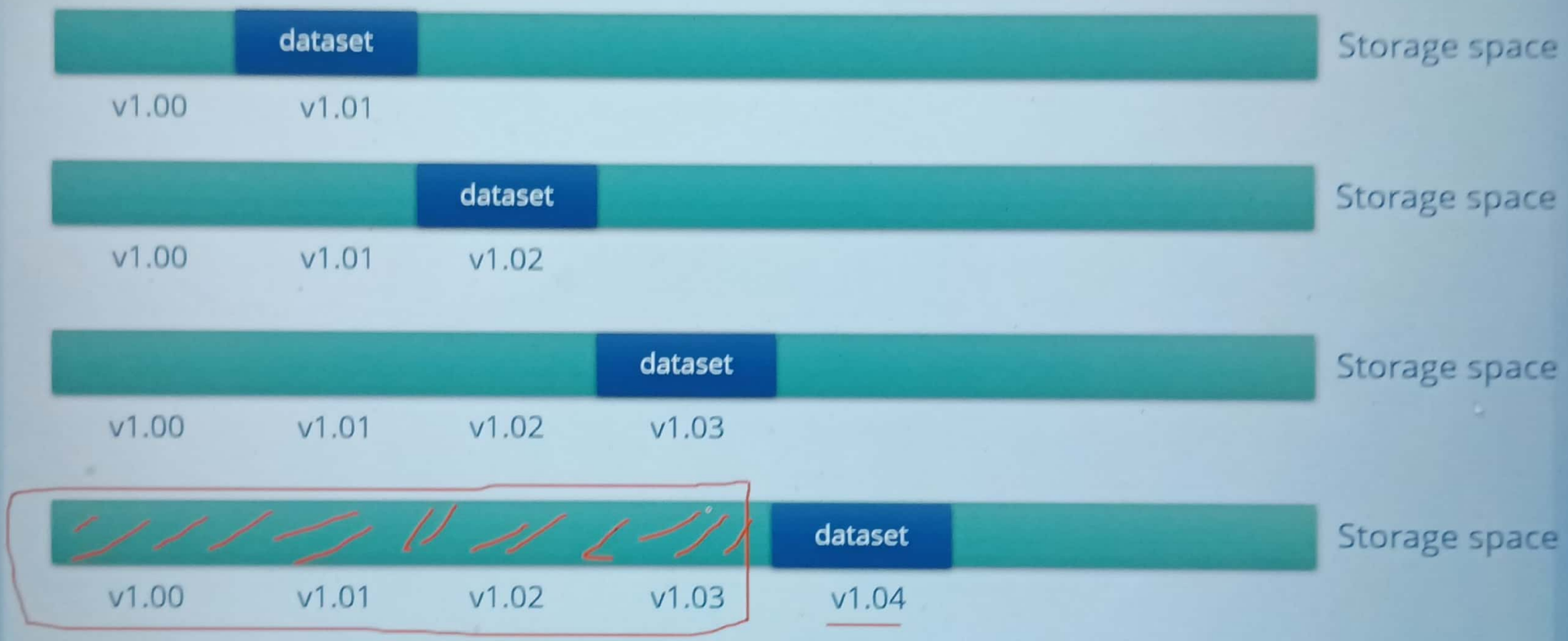
IEBCOPY – Library Copy Program



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Summary

Compression is used to Free up unused space.

Compression can be done by giving the same dataset as input and output

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR  <---- DATASET TO BE COMPRESSED
//SYSIN     DD   *
             COPY OUTDD=DD1                    <------- DD NAME OF DATASET
                  INDD=DD1                     <------- DD NAME OF DATASET
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

Member can be Renamed while copying.

Rename member syntax:

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBCOPY
//DD1      DD   DSN=ABHI.COURSE.PDS1,DISP=SHR     <------- INPUT DATASET
//DD2      DD   DSN=ABHI.COURSE.PDS2,DISP=SHR     <------- INPUT DATASET
//DD3      DD   DSN=ABHI.COURSE.PDS3,DISP=SHR     <------- OUTPUT DATASET
//SYSIN    DD   *
           COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
                INDD=DD1                     <------- DD NAME OF INPUT DATASET
                INDD=DD2                     <------- DD NAME OF INPUT DATASET
       SELECT MEMBER=((MEMBER1,NEWNAME))     <------- MEMBERS NAMES TO BE RENAMED
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

Replace of the member can be done if the member already exist in the destination dataset.

Replace member syntax:

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR     <------- INPUT DATASET
//DD2       DD   DSN=ABHI.COURSE.PDS2,DISP=SHR     <------- INPUT DATASET
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR     <------- OUTPUT DATASET
.............................
//SYSIN     DD   *
            COPY OUTDD=DD3                       <------- DD NAME OF OUTPUT DATASET
                 INDD=DD1                        <------- DD NAME OF INPUT DATASET
                 INDD=DD2                        <------- DD NAME OF INPUT DATASET
        SELECT MEMBER=((MEMBER1,,R))             <------- MEMBERS NAMES TO BE REPLACED
/*
```

Scanned with CamScanner

IEBCOPY – Library Copy Program

Both Rename and Replace can be done during the copy operation.

Rename and Replace syntax:

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBCOPY
//DD1      DD   DSN=ABHI.COURSE.PDS1,DISP=SHR     <------- INPUT DATASET
//DD2      DD   DSN=ABHI.COURSE.PDS2,DISP=SHR     <------- INPUT DATASET
//DD3      DD   DSN=ABHI.COURSE.PDS3,DISP=SHR     <------- OUTPUT DATASET
//SYSIN    DD   *
           COPY OUTDD=DD3                   <------- DD NAME OF OUTPUT DATASET
                INDD=DD1                    <------- DD NAME OF INPUT DATASET
                INDD=DD2                    <------- DD NAME OF INPUT DATASET
       SELECT MEMBER=((MEMBER1,NEWNAME,R))  <------- MEMBERS NAMES TO BE RENAMED AND REPLACED
/*
```

Scanned with CamScanner

Summary

Members can be Renamed, Replaced or both while copying. The syntax for all these operations are:

Rename

```
//SYSIN     DD    *
              COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
                   INDD=DD1                     <------- DD NAME OF INPUT DATASET
          SELECT MEMBER=((MEMBER1,NEWNAME))      <------- MEMBERS NAMES TO BE RENAMED
/*
```

Replace

```
//STEP1     EXEC PGM=IEBCOPY
//DD1       DD   DSN=ABHI.COURSE.PDS1,DISP=SHR      <------- INPUT DATASET
//DD3       DD   DSN=ABHI.COURSE.PDS3,DISP=SHR      <------- OUTPUT DATASET
//SYSIN     DD    *
              COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
                   INDD=DD1                     <------- DD NAME OF INPUT DATASET
          SELECT MEMBER=((MEMBER1,,R))          <------- MEMBERS NAMES TO BE REPLACED
/*
```

Rename and Replace

```
//SYSIN     DD    *
              COPY OUTDD=DD3                    <------- DD NAME OF OUTPUT DATASET
                   INDD=DD1                     <------- DD NAME OF INPUT DATASET
         SELECT MEMBER=((MEMBER1,NEWNAME,R))    <------- MEMBERS NAMES TO BE RENAMED AND REPLACED
/*
```

Scanned with CamScanner

IEHLIST - List System Data Program

IEHLIST can be used to List entries in a PDS or in VTOC.

It is a System utility.

LIST one PDS

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR          <----- LOCATION OF DATASET
.................................
//SYSIN DD   *
      LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
/*
```

Scanned with CamScanner

```
REVEDIT   DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===> s                                                  SCROLL ===> CSR
****** ***************************** TOP OF DATA ******************************
000001 //LIST      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> LIST A PDS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEHLIST
  3350 //DD1       DD    UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <-- VOL OF DATASET
000007 //SYSPRINT  DD    SYSOUT=*
000008 //SYSOUT    DD    SYSOUT=*
000009 //SYSIN     DD    *
000010          LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000 <-- NAME
000011 /*
****** ***************************** BOTTOM OF DATA ***************************
                                                                   7800K FREE
```

Scanned with CamScanner

```
REVEDIT  DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===> _                                                SCROLL ===> CSR
****** ***************************** TOP OF DATA ******************************
000001 //LIST     JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> LIST A PDS <<
000004 //*
000005 //STEP1    EXEC  PGM=IEHLIST
  3350 //DD1      DD    UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <-- VOL OF DATASET
000007 //SYSPRINT DD    SYSOUT=*
000008 //SYSOUT   DD    SYSOUT=*
000009 //SYSIN    DD    *
000010        LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000 <-- NAME
000011        LISTPDS DSNAME=ABHI.COURSE.PDS4,VOLUME=DISK=PUB000 <-- NAME
000012 /*
****** ***************************** BOTTOM OF DATA ***************************
                                                                 7800K FREE
4T                                  0        2,15
```

Scanned with CamScanner

```
REVEDIT  ABH  ...RSE.JCLLIB(IEHLIST) - 1.0...                COLUMNS 00001 00072
COMMAND ===>  you can list upto 10 pds in one jcl            SCROLL ===> CSR
****** ***** ********************************************************************
000001 //LIST     JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> LIST A PDS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEHLIST
  3350 //DD1       DD    UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <-- VOL OF DATASET
000007 //SYSPRINT  DD    SYSOUT=*
000008 //SYSOUT    DD    SYSOUT=*
000009 //SYSIN     DD    *
000010          LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000 <-- NAME
000011          LISTPDS DSNAME=ABHI.COURSE.PDS4,VOLUME=DISK=PUB000 <-- NAME
000012 /*
****** ********************************* BOTTOM OF DATA ********************************
                                                                          7800K FREE
4T                                                   0      14,6
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHLIST) - 1.05                    COLUMNS 00001 00072
COMMAND ===>                                                    SCROLL ===> CSR
****** ***************************** TOP OF DATA ******************************
000001 //LIST      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*           >> LIST A PDS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEHLIST
  3350 //DD1       DD    UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <-- VOL OF DATASET
  3375 //DD2       DD    UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR <-- VOL OF DATASET
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    *
000011          LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000 <-- NAME
000012          LISTPDS DSNAME=ABHI.COURSE.PDS4,VOLUME=DISK=PUB000 <-- NAME
000013 /*
****** **************************** BOTTOM OF DATA ****************************
                                                                 7796K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

IEHLIST - List System Data Program

LIST multiple PDS on same volume

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR          <----- LOCATION OF DATASET
.................................
//SYSIN DD   *
      LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
      LISTPDS DSNAME=ABHI.COURSE.PDS4,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
/*
```

LIST multiple PDS on different volume

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR          <----- LOCATION OF DATASET
//DD2   DD   UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR          <----- LOCATION OF DATASET
.................................
//SYSIN DD   *
      LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
      LISTPDS DSNAME=ABHI.COURSE.PDS5,VOLUME=DISK=PUB001  <----- NAME OF THE DATASET TO LIST
/*
```

Maximum of 10 PDS can be listed in one JCL.

Scanned with CamScanner

Summary

IEHLIST can be used to List entries in a PDS or in VTOC.
It is a System utility.

LIST one PDS

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR          <----- LOCATION OF DATASET
//SYSIN DD   *
      LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
/*
```

LIST multiple PDS

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR          <----- LOCATION OF DATASET
//DD2   DD   UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR          <----- LOCATION OF DATASET
//SYSIN DD   *
      LISTPDS DSNAME=ABHI.COURSE.PDS3,VOLUME=DISK=PUB000  <----- NAME OF THE DATASET TO LIST
      LISTPDS DSNAME=ABHI.COURSE.PDS5,VOLUME=DISK=PUB001  <----- NAME OF THE DATASET TO LIST
/*
```

Scanned with CamScanner

IEHLIST - List System Data Program

LIST a VTOC

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR        <----- NAME OF THE VOLUME TO LIST
//SYSIN DD   *
      LISTVTOC VOLUME=DISK=PUB000          <----- NAME OF THE VOLUME TO LIST
/*
```

LIST in Hexadecimal form

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR        <----- NAME OF THE VOLUME TO LIST
//SYSIN DD   *
      LISTVTOC DUMP,VOLUME=DISK=PUB000          <----- NAME OF THE VOLUME TO LIST
/*
```

VTOC - Volume Table of Contents

Scanned with CamScanner

```
REVEDIT  Data saved                                          Columns 00001 00072
Command ===> submit                                           Scroll ===> CSR
****** ***************************** Top of Data ******************************
000001 //LIST1     JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> LIST a VTOC <<
000004 //*
000005 //STEP1     EXEC PGM=IEHLIST
  3350 //DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR
000007 //SYSPRINT  DD   SYSOUT=*
000008 //SYSOUT    DD   SYSOUT=*
000009 //SYSIN     DD   *
000010          LISTVTOC VOLUME=DISK=PUB000
000011 /*
****** ***************************** Bottom of Data ***************************
                                                                 7796K FREE
4T                                  0      2,21
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHLIST1) - 1.02                    Columns 00001 000
Command ===>                                                     Scroll ===>
****** ********************************* Top of Data ********************************
000001 //LIST1     JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*           >> LIST a VTOC <<
000004 //*
000005 //STEP1     EXEC  PGM=IEHLIST
  3375 //DD1       DD    UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR
000007 //SYSPRINT  DD    SYSOUT=*
000008 //SYSOUT    DD    SYSOUT=*
000009 //SYSIN     DD    *
000010          LISTVTOC DUMP,VOLUME=DISK=PUB001
000011 /*
****** ********************************* Bottom of Data *****************************
                                                                          7796K FREE
4T                                                    0        2,15
```

Scanned with CamScanner

Summary

LIST a VTOC

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR    <---- NAME OF THE VOLUME TO LIST
.............................
//SYSIN DD   *
      LISTVTOC VOLUME=DISK=PUB000          <----- NAME OF THE VOLUME TO LIST
/*
```

LIST a VTOC in Hexadecimal form

```
//----------JOBCARD---------
//STEP1 EXEC PGM=IEHLIST
//DD1   DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR    <----- NAME OF THE VOLUME TO LIST
.............................
//SYSIN DD   *
      LISTVTOC DUMP,VOLUME=DISK=PUB000          <----- NAME OF THE VOLUME TO LIST
/*
```

Scanned with CamScanner

IEHPROGM – Program Maintenance Utility

IEHPROGM can be used for the following tasks:

- Delete a dataset
- Uncatalog a dataset

It is a system utility

Scanned with CamScanner

IEHPROGM - Program Maintenance Utility

Scratch(Delete) a dataset:

```
//-------------JOBCARD-------------
//STEP1     EXEC PGM=IEHPROGM
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
//SYSIN     DD   *
              SCRATCH DSNAME=ABHI.COURSE.PDS5,      <---- Dataset name
                      VOL=DISK=PUB000
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHPROG) - 1.10                    COLUMNS 00001 00072
COMMAND ===>                                                    SCROLL ===> CSR
  64KB ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--
****** ********************************* TOP OF DATA ***********************************
000001 //IEHPROG   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> SCRATCH A DATASET <<
000004 //*
000005 //STEP1     EXEC  PGM=IEHPROGM
  3350 //DD1       DD    UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR     <-- LOCATION
000007 //SYPRINT   DD    SYSOUT=*
000008 //SYSOUT    DD    SYSOUT=*
000009 //SYSIN     DD    *
000010          SCRATCH DSNAME=ABHI.COURSE.PDS8,VOL=DISK=PUB000 <-- NAME OF DS
000011 /*
****** ********************************* BOTTOM OF DATA ********************************
                                                                          7772K FREE
4T                                                    0        2,15
```

Scanned with CamScanner

Summary

IEHPROGM can be used for the following tasks:

- Delete a dataset
- Uncatalog a dataset

It is a system utility

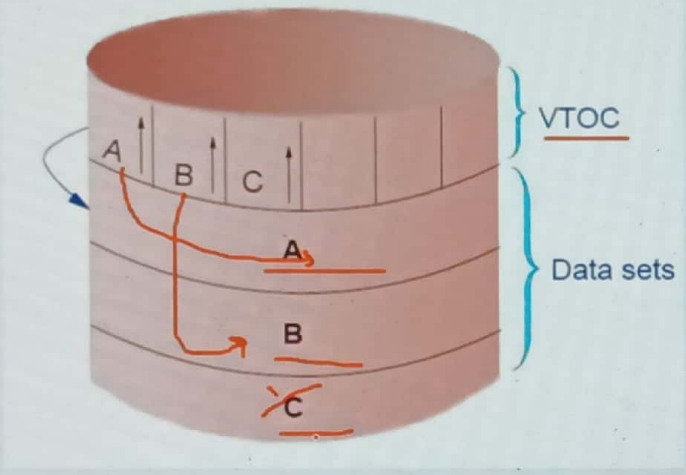
Scratch(Delete) a dataset:

```
//-------------JOBCARD-------------
//STEP1    EXEC PGM=IEHPROGM
//DD1      DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
.............................
//SYSIN    DD   *
              SCRATCH DSNAME=ABHI.COURSE.PDS5,      <---- Dataset name
                      VOL=DISK=PUB000
/*
```

Scanned with CamScanner

IEHPROGM – Program Maintenance Utility

Volume Table of Contents (VTOC)



Uncatalog a dataset:

```
//------------JOBCARD-------------
//STEP1     EXEC PGM=IEHPROGM
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
//SYSIN     DD   *
          UNCATLG DSNAME=ABHI.COURSE.PDS5,      <---- Dataset name
                  VOL=DISK=PUB000
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHPROG1) - 1.07                    COLUMNS 00001 00072
COMMAND ===> subm                                                SCROLL ===> CSR
  64KB ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--
****** ***************************** TOP OF DATA ******************************
000001 //IEHPROG1 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> UNCATALOG A DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEHPROGM
  3350 //DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR  <-- LOCATION
000007 //SYSPRINT DD   SYSOUT=*
000008 //SYSOUT    DD   SYSOUT=*
000009 //SYSIN     DD   *
000010            UNCATLG DSNAME=ABHI.COURSE.PDS8     <--- NAME OF DATASET
000011 /*
****** ***************************** BOTTOM OF DATA ***************************
                                                                 7772K FREE
T                                  ^      0      2,19
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHPROG1) - 1.07                    COLUMNS 00001 00072
COMMAND ===>                                                     SCROLL ===> CSR
  64KB ----+----1----+----2----+----3----+----4----+----5----+----6----+----7--
****** ******************************** TOP OF DATA ********************************
000001 //IEHPROG1 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> UNCATALOG A DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEHPROGM
  3350 //DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR  <-- LOCATION
000007 //SYSPRINT DD   SYSOUT=*
000008 //SYSOUT   DD   SYSOUT=*
000009 //SYSIN    DD   *
000010            SCRATCH DSNAME=ABHI.COURSE.PDS8,VOLUME=DISK=PUB000
000011            UNCATLG DSNAME=ABHI.COURSE.PDS8
000012 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                        7772K FREE
4T                                                   0     15,46
```

Scanned with CamScanner

Summary

Uncatalog a dataset:

```
//------------JOBCARD-------------
//STEP1     EXEC PGM=IEHPROGM
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
//SYSIN     DD   *
          UNCATLG DSNAME=ABHI.COURSE.PDS5,      <---- Dataset name

/*
```

Scanned with CamScanner

IEHPROGM - Program Maintenance Utility

Scratch(Delete) a PDS member:

```
//------------JOBCARD-------------
//STEP1    EXEC PGM=IEHPROGM
//DD1      DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
//SYSIN    DD   *
               SCRATCH DSNAME=ABHI.COURSE.PDS5,      <---- Dataset name
                       VOL=DISK=PUB000,
                       MEMBER=MEMBER1                <---- Member to delete
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEHPROG2) - 1.03                COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ********************************* TOP OF DATA *********************************
000001 //IEHPROG2 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> SCRATCH A PDS MEMBER <<
000004 //*
000005 //STEP1     EXEC PGM=IEHPROGM
  3375 //DD1       DD   UNIT=DISK,VOLUME=SER=PUB001,DISP=SHR
000007 //SYSPRINT DD    SYSOUT=*
000008 //SYSOUT    DD   SYSOUT=*
000009 //SYSIN     DD   *
000010          SCRATCH DSNAME=ABHI.COURSE.PDS7,VOL=DISK=PUB001,MEMBER=MEMBER1
000011 /*
****** ********************************* BOTTOM OF DATA ******************************
                                                                          7768K FREE
4T                                                   0        2,15
```

Scanned with CamScanner

Summary

Scratch(Delete) a PDS member:

```
//-------------JOBCARD-------------
//STEP1     EXEC PGM=IEHPROGM
//DD1       DD   UNIT=DISK,VOLUME=SER=PUB000,DISP=SHR <---- Location of the dataset
//SYSIN     DD   *
          SCRATCH DSNAME=ABHI.COURSE.PDS5,          <---- Dataset name
                  VOL=DISK=PUB000,
                  MEMBER=MEMBER1,                   <---- Member to delete
/*
```

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

IEBEDIT is used to create a JOB from other JOBs.

You can copy:

- The entire JOB
- Copy multiple JOBs into one JOB
- Only few steps from the JOB

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

Copy entire JOB into another dataset.

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   *
             EDIT START=JOB1                  <------ Jobname to copy
/*
```

JOBLIB and STEPLIB are also copied.

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS1 ON PUB010                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ***********AUTOSAVE********* TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEP1     EXEC  PGM=HELLO                    -------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                 |
000007 //SYSPRINT  DD    SYSOUT=*                                  |    STEP1
000008 //SYSOUT    DD    SYSOUT=*                                  |
000009 //SYSIN     DD    DUMMY                              -------------+
000010 //*
000011 //STEP2     EXEC  PGM=CREATE                         -------------+
000012 //SYSPRINT  DD    SYSOUT=*                                  |    STEP2
000013 //SYSOUT    DD    SYSOUT=*                                  |
000014 //SYSIN     DD    DUMMY                              -------------+
000015 //*
000016 //STEP3     EXEC  PGM=EXCEL                          -------------+
000017 //SYSPRINT  DD    SYSOUT=*                                  |    STEP3
000018 //SYSOUT    DD    SYSOUT=*                                  |
000019 //SYSIN     DD    DUMMY                              -------------+
000020 /*
****** ***********AUTOSAVE********* BOTTOM OF DATA ****************** 7704K FREE
4T                                                   0      6,11
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT) - 1.03                    Columns 00001 000
Command ===> subm                                               Scroll ===> 
****** ******************************** Top of Data ********************************
000001 //IEBEDIT   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY ENTIRE JOB INTO ANOTHER DATASET <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBEDIT
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS1,DISP=SHR    <--- INPUT DATASET
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PS2,DISP=SHR    <--- OUTPUT DATASET
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    *
000011              EDIT START=JOB1        <----- jobname to copy
000012 /*
****** ******************************** Bottom of Data *****************************
                                                                    7704K FREE
4T                                                    0      2,18
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS2 ON PUB000                                  COLUMNS 00001 00072
COMMAND ===>                                                        SCROLL ===>
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEP1     EXEC  PGM=HELLO                          --------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                        |
000007 //SYSPRINT  DD    SYSOUT=*                                         |   STEP1
000008 //SYSOUT    DD    SYSOUT=*                                         |
000009 //SYSIN     DD    DUMMY                                            |
000010 //*                                                               |
000011 //STEP2     EXEC  PGM=CREATE                         --------------+
000012 //SYSPRINT  DD    SYSOUT=*                                         |   STEP2
000013 //SYSOUT    DD    SYSOUT=*                                         |
000014 //SYSIN     DD    DUMMY                                            |
000015 //*                                                               |
000016 //STEP3     EXEC  PGM=EXCEL                          --------------+
000017 //SYSPRINT  DD    SYSOUT=*                                         |   STEP3
000018 //SYSOUT    DD    SYSOUT=*                                         |
000019 //SYSIN     DD    DUMMY                                            |
000020 /*                                                                +
****** ************AUTOSAVE********** BOTTOM OF DATA ******************** 7704K FREE
4T                                                    0      2,15
```

Scanned with CamScanner

Summary

IEBEDIT is used to create a JOB from other JOBs.

You can copy:

- The entire JOB
- Copy multiple JOBs into one JOB
- Only few steps from the JOB

Copy entire JOB

JOBLIB and STEPLIB are also copied.

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ output dataset
-------------------------
//SYSIN    DD   *
            EDIT START=JOB1                   <------ Jobname to copy
/*
```

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

Copy multiple JOBs into another dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS3,DISP=SHR   <------ output dataset
-------------------------
//SYSIN    DD   *
             EDIT START=JOB1                  <------ Jobname to copy
             EDIT START=JOB2                  <------ Jobname to copy
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT1) - 1.02                    Columns 00001 00072
Command ===>              SAVE                                   Scroll ===> CSR
****** ********************************** Top of Data ***********************************
000001 //IEBEDIT1 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY MULTIPLE JOBS INTO ANOTHER DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR  <---INPUT DATASET
000007 //          DD   DSN=ABHI.COURSE.PS2,DISP=SHR  <---INPUT DATASET
000008 //SYSUT2    DD   DSN=ABHI.COURSE.PS3,DISP=SHR  <---OUTPUT DATASET
000009 //SYSPRINT  DD   SYSOUT=*
000010 //SYSOUT    DD   SYSOUT=*
000011 //SYSIN     DD   *
000012              EDIT START=JOB1
000013              EDIT START=JOB2
000014 /*
****** ********************************** Bottom of Data ********************************
                                                                                 7776K FREE
4T                                                   0        2,28
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS3 ON PUB010                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ***********AUTOSAVE********* TOP OF DATA ********************************
000001 //JOB1      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000002 //*                                                              |
000003 //JOBLIB    DD   DSN=SYS1.PROCLIB,DISP=SHR                        |
000004 //*                                                              |
000005 //STEP1     EXEC PGM=HELLO                                        | JOB1
000006 //STEPLIB   DD   DSN=SYS2.PROCLIB,DISP=SHR                       |
000007 //SYSPRINT  DD   SYSOUT=*                                        |
000008 //SYSOUT    DD   SYSOUT=*                                        |
000009 //SYSIN     DD   DUMMY                                   -------+
000010 //*
000011 //JOB2      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000012 //*                                                              |
000013 //STEP2     EXEC PGM=DELETE                                       | JOB2
000014 //SYSPRINT  DD   SYSOUT=*                                        |
000015 //SYSOUT    DD   SYSOUT=*                                        |
000016 //SYSIN     DD   DUMMY                                   -------+
000017 /*
****** ***********AUTOSAVE******** BOTTOM OF DATA ***************************

                                                                 7704K FREE
4T                                                   0     17,73
```

Scanned with CamScanner

Summary

Copy multiple JOBs into another dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS3,DISP=SHR   <------ output dataset
---------------------------
//SYSIN    DD   *
             EDIT START=JOB1                  <------ Jobname to copy
             EDIT START=JOB2                  <------ Jobname to copy
/*
```

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

Copy Steps using INCLUDE

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   *
        EDIT START=JOB1,TYPE=INCLUDE,STEPNAME=STEPB   <------ Jobname to copy
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS1 ON PUB010                          COLUMNS 00001 00072
COMMAND ===> _                                                SCROLL ===> CSR
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPA     EXEC  PGM=HELLO                        --------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                      |
000007 //SYSPRINT  DD    SYSOUT=*                                       | STEPA
000008 //SYSOUT    DD    SYSOUT=*                                       |
000009 //SYSIN     DD    DUMMY                                          |
000010 //*                                                              |
000011 //STEPB     EXEC  PGM=DISPLAY                      --------------+
000012 //SYSPRINT  DD    SYSOUT=*                                       | STEPB
000013 //SYSOUT    DD    SYSOUT=*                                       |
000014 //SYSIN     DD    DUMMY                                          |
000015 //*                                                              |
000016 //STEPC     EXEC  PGM=DELETE                       --------------+
000017 //SYSPRINT  DD    SYSOUT=*                                       | STEPC
000018 //SYSOUT    DD    SYSOUT=*                                       |
000019 //SYSIN     DD    DUMMY                                          |
000020 //*                                                              |
****** ************AUTOSAVE********* BOTTOM OF DATA ****************** 7700K FREE
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT2) - 1.06                COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBEDIT2 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING INCLUDE <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR  <---INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR  <---OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011          EDIT START=JOB1,TYPE=INCLUDE,STEPNAME=STEPB <--STEP TO COPY
000012 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                    7772K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS4 ON PUB010                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPB     EXEC  PGM=DISPLAY                    --------------+
000006 //SYSPRINT  DD    SYSOUT=*                                     | STEPB
000007 //SYSOUT    DD    SYSOUT=*                                     |
000008 //SYSIN     DD    DUMMY                                        |
000009 //*                                              --------------+
****** ************AUTOSAVE********* BOTTOM OF DATA ******************************
                                                                  7700K FREE
Alt                                                   0      2,15
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT2) - 1.06                COLUMNS 00001 00072
COMMAND ===>                 SAVE                           SCROLL ===> CSR
****** ********************************* TOP OF DATA ********************************
000001 //IEBEDIT2 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING INCLUDE <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR  <---INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR  <---OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011          EDIT START=JOB1,TYPE=INCLUDE,STEPNAME=(STEPB,STEPC)
000012 /*
****** ***************************** BOTTOM OF DATA ******************************
                                                                  7700K FREE
4T                                   0        2,28
```

Scanned with CamScanner

Summary

Copy Steps using INCLUDE

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBEDIT
//SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR    <------ input dataset
//SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR    <------ output dataset
-------------------------
//SYSIN     DD   *
      EDIT START=JOB1,TYPE=INCLUDE,STEPNAME=STEPB,STEP1  <------ Jobname to copy
/*
```

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

Copy Steps using EXCLUDE

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   *
        EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=STEPB   <------ Jobname to copy
/*
```

INCLUDE and EXCLUDE can also be combined in one JCL

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS1 ON PUB010                          COLUMNS 00001 0000
COMMAND ===>                                                  SCROLL ===>
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPA     EXEC  PGM=HELLO                          ---------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                         |
000007 //SYSPRINT  DD    SYSOUT=*                                          |  STEPA
000008 //SYSOUT    DD    SYSOUT=*                                          |
000009 //SYSIN     DD    DUMMY                                ---------------+
000010 //*
000011 //STEPB     EXEC  PGM=DISPLAY                        ---------------+
000012 //SYSPRINT  DD    SYSOUT=*                                          |  STEPB
000013 //SYSOUT    DD    SYSOUT=*                                          |
000014 //SYSIN     DD    DUMMY                                ---------------+
000015 //*
000016 //STEPC     EXEC  PGM=DELETE                         ---------------+
000017 //SYSPRINT  DD    SYSOUT=*                                          |  STEPC
000018 //SYSOUT    DD    SYSOUT=*                                          |
000019 //SYSIN     DD    DUMMY                                ---------------+
000020 //*
****** ************AUTOSAVE********* BOTTOM OF DATA ****************** 7700K FREE
4T                                                  0     18,62
```

Scanned with CamScanner

```
REVEDIT  DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===>                                                  SCROLL ===> CSR
****** ***************************** TOP OF DATA ******************************
000001 //IEBEDIT4 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING EXCLUDE <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR    <--- INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS2,DISP=SHR    <--- OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011            EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=STEPB <-- STEP TO EXCL
000012 /*
****** ***************************** BOTTOM OF DATA ***************************
                                                                   7700K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS2 ON PUB000                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPA     EXEC  PGM=HELLO                    --------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                  |
000007 //SYSPRINT  DD    SYSOUT=*                                   | STEPA
000008 //SYSOUT    DD    SYSOUT=*                                   |
000009 //SYSIN     DD    DUMMY                              --------------+
000010 //*
000011 //STEPC     EXEC  PGM=DELETE                         --------------+
000012 //SYSPRINT  DD    SYSOUT=*                                   | STEPC
000013 //SYSOUT    DD    SYSOUT=*                                   |
000014 //SYSIN     DD    DUMMY                              --------------+
000015 //*
****** ************AUTOSAVE********* BOTTOM OF DATA ******************************
                                                                   7700K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT4) - 1.01                COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===>
****** ******************************** TOP OF DATA ********************************
000001 //IEBEDIT4 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING EXCLUDE <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR    <--- INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS2,DISP=SHR    <--- OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011            EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=(STEPB,STEPC)
000012 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                      7700K FREE
4T                                  ^      0      2,15
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS3 ON PUB010                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000002 //*                                                              |
000003 //JOBLIB    DD   DSN=SYS1.PROCLIB,DISP=SHR                        |
000004 //*                                                              |
000005 //STEP1     EXEC PGM=HELLO                                        | JOB1
000006 //STEPLIB   DD   DSN=SYS2.PROCLIB,DISP=SHR                       |
000007 //SYSPRINT  DD   SYSOUT=*                                        |
000008 //SYSOUT    DD   SYSOUT=*                                        |
000009 //SYSIN     DD   DUMMY                                   -------+
000010 //*
000011 //JOB2      JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000012 //*                                                              |
000013 //STEP2     EXEC PGM=DELETE                                       | JOB2
000014 //SYSPRINT  DD   SYSOUT=*                                        |
000015 //SYSOUT    DD   SYSOUT=*                                        |
000016 //SYSIN     DD   DUMMY                                   -------+
000017 /*
****** ************AUTOSAVE********* BOTTOM OF DATA ********************************
                                                                 7700K FREE
4T                                                   0      8,11
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT4) - 1.01                COLUMNS 00001 00072
COMMAND ===> SUBMIT                                          SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBEDIT4 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING EXCLUDE <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS3,DISP=SHR    <--- INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR    <--- OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011            EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=STEP1
000012            EDIT START=JOB2,TYPE=INCLUDE,STEPNAME=STEP2
000013 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                   7700K FREE
4T                                  0        2,21
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS4 ON PUB010                                  COLUMNS 00001 00072
COMMAND ===>                                                         SCROLL ===> CSR
****** ***********AUTOSAVE********* TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000002 //*                                                               |
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR                        |
000004 //*                                                               |
000005 //JOB2      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01 -+
000006 //*                                                               |
000007 //STEP2     EXEC  PGM=DELETE                                       | JOB2
000008 //SYSPRINT  DD    SYSOUT=*                                         |
000009 //SYSOUT    DD    SYSOUT=*                                         |
000010 //SYSIN     DD    DUMMY                                            |
                                                                 -------+
000011 /*
****** ***********AUTOSAVE******** BOTTOM OF DATA ***********************
                                                                 7700K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

Summary

Copy Steps using EXCLUDE

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   *
        EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=STEPB   <------ Jobname to copy
/*
```

INCLUDE and EXCLUDE can also be combined in one JCL.

Scanned with CamScanner

IEBEDIT – EDIT Job stream Program

Copy Steps using POSITION

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   *
        EDIT START=JOB1,TYPE=POSITION,STEPNAME=STEPB   <------ Jobname to copy
/*
```

INCLUDE, EXCLUDE and POSITION can also be combined in one JCL

Scanned with CamScanner

```
REVEDIT  ABH1.COURSE.PS1 ON PUB010                                  COLUMNS 00001 000
COMMAND ===>                                                         SCROLL ===>
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPA     EXEC  PGM=HELLO                          -------------+
000006 //STEPLIB   DD    DSN=SYS2.PROCLIB,DISP=SHR                       |
000007 //SYSPRINT  DD    SYSOUT=*                                        | STEPA
000008 //SYSOUT    DD    SYSOUT=*                                        |
000009 //SYSIN     DD    DUMMY                                    -------------+
000010 //*
000011 //STEPB     EXEC  PGM=DISPLAY                              -------------+
000012 //SYSPRINT  DD    SYSOUT=*                                        | STEPB
000013 //SYSOUT    DD    SYSOUT=*                                        |
000014 //SYSIN     DD    DUMMY                                    -------------+
000015 //*
000016 //STEPC     EXEC  PGM=DELETE                               -------------+
000017 //SYSPRINT  DD    SYSOUT=*                                        | STEPC
000018 //SYSOUT    DD    SYSOUT=*                                        |
000019 //SYSIN     DD    DUMMY                                    -------------+
000020 //*
****** ************AUTOSAVE********* BOTTOM OF DATA ****************** 7700K FREE
4T                                                          0     15.60
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBEDIT3) - 1.03                    COLUMNS 00001 00072
COMMAND ===> SUBMIT                                              SCROLL ===> CSR
****** ********************************* TOP OF DATA *********************************
000001 //IEBEDIT3 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY STEPS USING POSITION PARAMETER <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <--- INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <--- OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011          EDIT START=JOB1,TYPE=POSITION,STEPNAME=STEPB <--- START POS
000012 /*
****** ******************************** BOTTOM OF DATA ******************************
                                                                          7700K FREE
4T                                                   0        2,21
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.PS4 ON PUB010                          COLUMNS 00001 00072
COMMAND ===>                                                 SCROLL ===> CSR
****** ***********AUTOSAVE********** TOP OF DATA ********************************
000001 //JOB1      JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //JOBLIB    DD    DSN=SYS1.PROCLIB,DISP=SHR
000004 //*
000005 //STEPB     EXEC  PGM=DISPLAY                    -------------+
000006 //SYSPRINT  DD    SYSOUT=*                                    | STEPB
000007 //SYSOUT    DD    SYSOUT=*                                    |
000008 //SYSIN     DD    DUMMY                          -------------+
000009 //*
000010 //STEPC     EXEC  PGM=DELETE                     -------------+
000011 //SYSPRINT  DD    SYSOUT=*                                    | STEPC
000012 //SYSOUT    DD    SYSOUT=*                                    |
000013 //SYSIN     DD    DUMMY                          -------------+
000014 //*
****** ***********AUTOSAVE******** BOTTOM OF DATA ******************************
                                                                 7700K FREE
4T                                                   0      2,15
```

Scanned with CamScanner

```
REVEDIT   DATA SAVED                                                    COLUMNS 00001 00072
COMMAND ===>                                                            SCROLL ===>
****** ********************************* TOP OF DATA *********************************
000001 //IEBEDIT3 JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*            >> COPY STEPS USING POSITION PARAMETER <<
000004 //*
000005 //STEP1     EXEC PGM=IEBEDIT
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <--- INPUT DATASET
000007 //SYSUT2    DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <--- OUTPUT DATASET
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011          EDIT START=JOB1,TYPE=POSITION,STEPNAME=STEPB <--- START POS
000012          EDIT START=JOB1,TYPE=INCLUDE,STEPNAME=STEPC
000013          EDIT START=JOB1,TYPE=EXCLUDE,STEPNAME=STEPD
000014 /*
****** ******************************** BOTTOM OF DATA ********************************
                                                                        7700K FREE
4T                                                  0        2.15
```

Scanned with CamScanner

Summary

Copy Steps using POSITION

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBEDIT
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
-------------------------
//SYSIN    DD   *
       EDIT START=JOB1,TYPE=POSITION,STEPNAME=STEPB   <------ Jobname to copy
/*
```

INCLUDE, EXCLUDE and POSITION can also be combined in one JCL.

Scanned with CamScanner

IEBPTPCH – Print Punch Utility

Print a PS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
--------------------------
//SYSIN    DD   *
        PRINT TYPORG=PS            <------- Type of dataset
/*
```

Print multiple PS dataset

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBPTPCH) - 1.03                COLUMNS 00001 00072
COMMAND ===> subm                                            SCROLL ===> CSR
****** ***************************************** TOP OF DATA ******************************************
000001 //IEBPTPCH JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> PRINT A PS DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEBPTPCH
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS2,DISP=SHR    <--- INPUT DATASET
000007 //SYSUT2    DD   SYSOUT=*                        <--- OUTPUT LOCATION
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011          PRINT TYPORG=PS     <----- IT IS A PS DATASET
000012 /*
****** ***************************************** BOTTOM OF DATA ***************************************
                                                                                  7800K FREE
4T                                                    0        2,18
```

Scanned with CamScanner

```
SYS18320.T153006.RA000.HERC01.JOB00328 ------------------------- Line 46 Col 2 31
Command ===>                                                      Scroll ===>
      10        20        30        40        50        60        70        80
---+----+----+----+----+----+----+----+----+----+----+----+----+----+----+----+-
*******************************************************************************
IEF375I  JOB /IEBPTPCH/ START 18320.1529
IEF376I  JOB /IEBPTPCH/ STOP  18320.1529 CPU    0MIN 00.03SEC SRB    0MIN 00.00S

//JOB1        JOB     CLASS=A,  MSGCLASS  =H,MSGLE  VEL=(1,1  ),NOTIFY  =HERC01
//*
//JOBLIB      DD      DSN=SYS1  .PROCLIB  ,DISP=SH  R
//*
//STEPA       EXEC    PGM=HELL  O                          -----  --------  +
//STEPLI   B  DD      DSN=SYS2  .PROCLIB  ,DISP=SH  R                       ┘
//SYSPRI   NT DD      SYSOUT=*                                              ┘ STEPA
//SYSOUT      DD      SYSOUT=*                                              ┘
//SYSIN       DD      DUMMY                                -----  --------  +
//*

PRINT/PUNCH DATA SET UTILITY
        PRINT TYPORG=PS     <----- IT IS A PS DATASET                 00001103
 EOF ON SYSIN
 END OF DATA FOR SDS OR MEMBER
******EOF-TTR=000101************ BOTTOM OF DATA **************5873-BYTES********

T                                                   0     17,37
```

Scanned with CamScanner

IEBPTPCH - Print Punch Utility

Print a PS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
--------------------------
//SYSIN    DD   *
        PRINT TYPORG=PS          <------- Type of dataset
/*
```

Print multiple PS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
--------------------------
//SYSIN    DD   *
        PRINT TYPORG=PS          <------- Type of dataset
/*
```

Scanned with CamScanner

```
EDIT   ABHI.COURSE.JCLLIB(IEBPTPCH) - 1.03                    COLUMNS 00001 000
COMMAND ===> start                                            SCROLL ===>
****** ********************************* TOP OF DATA ***********************************
000001 //IEBPTPCH JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> PRINT A PS DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEBPTPCH
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PS2,DISP=SHR    <--- INPUT DATASET
000007 //          DD   DSN=ABHI.COURSE.PS3,DISP=SHR    <--- INPUT DATASET
000008 //          DD   DSN=ABHI.COURSE.PS4,DISP=SHR    <--- INPUT DATASET
000009 //SYSUT2    DD   SYSOUT=*                        <--- OUTPUT LOCATION
000010 //SYSPRINT  DD   SYSOUT=*
000011 //SYSOUT    DD   SYSOUT=*
000012 //SYSIN     DD   *
000013          PRINT TYPORG=PS      <----- IT IS A PS DATASET
000014 /*
****** ********************************* BOTTOM OF DATA ********************************
                                                                          78000K FREE
                                                                  0      2,19
```

Scanned with CamScanner

Summary

Print a PS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
--------------------------
//SYSIN    DD   *
        PRINT TYPORG=PS          <------- Type of dataset
/*
```

Print multiple PS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
--------------------------
//SYSIN    DD   *
        PRINT TYPORG=PS          <------- Type of dataset
/*
```

Scanned with CamScanner

IEBPTPCH – Print Punch Utility

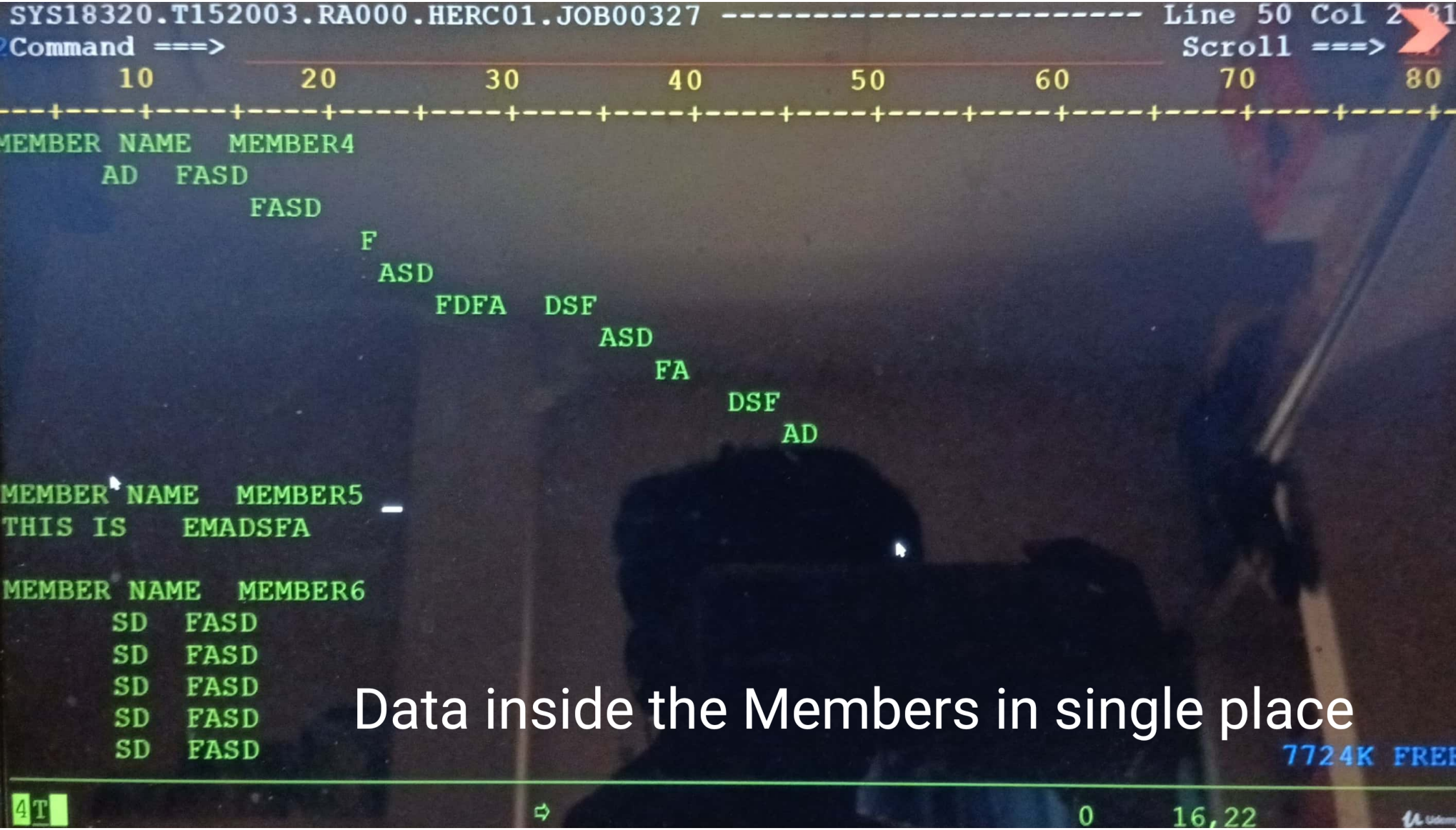
Print a PDS dataset

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBPTPCH
//SYSUT1    DD   DSN=ABHI.COURSE.PDS1,DISP=SHR   <------ input dataset
//SYSUT2    DD   SYSOUT=*                        <------ output location
--------------------------
//SYSIN     DD   *
        PRINT TYPORG=PO            <------- Type of dataset
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBPTPC1) - 1.05                COLUMNS 00001 00072
COMMAND ===> start                                          SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBPTPC1 JOB  CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> PRINT A PDS DATASET <<
000004 //*
000005 //STEP1     EXEC PGM=IEBPTPCH
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PDS3,DISP=SHR   <--- INPUT DATASET
000007 //SYSUT2    DD   SYSOUT=*                        <--- LOCATION OF OUTPUT
000008 //SYSPRINT  DD   SYSOUT=*
000009 //SYSOUT    DD   SYSOUT=*
000010 //SYSIN     DD   *
000011              PRINT TYPORG=PO        <---- DATASET IS PDS
000012 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                      7800K FREE
4T                                                    0      2,21
```

Scanned with CamScanner



Data inside the Members in single place

Scanned with CamScanner

Summary

Print a PDS dataset

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBPTPCH
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   SYSOUT=*                       <------ output location
-------------------------
//SYSIN    DD   *
     PRINT TYPORG=PO          <------- Type of dataset
/*
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Copy a PS

```
//----------JOBCARD---------
//STEP1     EXEC PGM=IEBGENER
//SYSUT1    DD   DSN=ABHI.COURSE.PS1,DISP=SHR    <------ input dataset
//SYSUT2    DD   DSN=ABHI.COURSE.PS2,DISP=SHR    <------ output dataset
--------------------------
//SYSIN     DD   DUMMY
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBGEN) - 1.02                    COLUMNS 00001 00072
COMMAND ===> subm                                              SCROLL ===> CSR
****** ********************************* TOP OF DATA ***********************************
000001 //IEBGEN    JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*           >> COPY A PS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS2,DISP=SHR   <--- INPUT DATASET
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PS3,DISP=SHR   <--- OUTPUT DATASET
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    DUMMY
000011 /*
****** ********************************* BOTTOM OF DATA ********************************
                                                                          7800K FREE
4T                                                   0        2,18
```

Scanned with CamScanner

Summary

Copy a PS

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Merge PS datasets

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS3,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
---------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

```
REVEDIT   ABHI.COURSE.JCLLIB(IEBGEN2) - 1.01                    COLUMNS 00001 00072
COMMAND ===> submi                                               SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBGEN2   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> MERGE PS DATASETS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS1,DISP=SHR   <-- INPUT DATASET
000007 //          DD    DSN=ABHI.COURSE.PS2,DISP=SHR   <-- INPUT DATASET
000008 //          DD    DSN=ABHI.COURSE.PS3,DISP=SHR   <-- INPUT DATASET
000009 //SYSUT2    DD    DSN=ABHI.COURSE.PS4,DISP=SHR   <-- OUTPUT DATASET
000010 //SYSPRINT  DD    SYSOUT=*
000011 //SYSOUT    DD    SYSOUT=*
000012 //SYSIN     DD    DUMMY
000013 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                  7780K FREE
4T                                  0        2,19
```

Scanned with CamScanner

Summary

Merge PS datasets

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PS3,DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS4,DISP=SHR   <------ output dataset
---------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Copy a PDS member

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

```
REVEDIT   DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===>                                                   SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBGEN1   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY A PDS MEMBER <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PDS2(MEMBER1),DISP=SHR <-- INPUT MEMBER
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR <- OUTPUT MEMBER
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    DUMMY
000011 /*
****** ******************************* BOTTOM OF DATA ******************************
                                                                          7776K FREE
4T                                                   0        2,15
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Copy a PDS member

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR   <------ output dataset
-------------------------
//SYSIN    DD   DUMMY
/*
```

Merge PDS members

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PDS1(MEMBER2),DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PDS1(MEMBER3),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2(MEMBER4),DISP=SHR   <------ output dataset
-------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBGEN3) - 1.01                COLUMNS 00001 00072
COMMAND ===>                                               SCROLL ===>
****** ********************************* TOP OF DATA *********************************
000001 //IEBGENER JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> MERGE PDS MEMBERS <<
000004 //*
000005 //STEP1     EXEC PGM=IEBGENER
000006 //SYSUT1    DD   DSN=ABHI.COURSE.PDS2(MEMBER1),DISP=SHR <-- INPUT MEMBER
000007 //          DD   DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR <-- INPUT MEMBER
000008 //          DD   DSN=ABHI.COURSE.PDS2(MEMBER3),DISP=SHR <-- INPUT MEMBER
000009 //SYSUT2    DD   DSN=ABHI.COURSE.PDS2(MEMBER4),DISP=SHR <- OUTPUT MEMBER
000010 //SYSPRINT  DD   SYSOUT=*
000011 //SYSOUT    DD   SYSOUT=*
000012 //SYSIN     DD   DUMMY
000013 /*
****** ********************************* BOTTOM OF DATA ******************************
                                                                   7772K FREE
4T                                    0        2,15
```

Scanned with CamScanner

Summary

Copy a PDS member

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   DUMMY
/*
```

Merge PDS members

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PDS1(MEMBER2),DISP=SHR   <------ input dataset
//         DD   DSN=ABHI.COURSE.PDS1(MEMBER3),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2(MEMBER4),DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Copy between PS and PDS members

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ output dataset
--------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBGEN4) - 1.01          COLUMNS 00001 00072
COMMAND ===>                                          SCROLL ===>
****** ***************************** TOP OF DATA ******************************
000001 //IEBGEN4   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY BETWEEN PS AND PDS MEMBERS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PDS2(MEMBER1),DISP=SHR
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PS2,DISP=SHR
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    DUMMY
000011 /*
****** ***************************** BOTTOM OF DATA ***************************
                                                                 7776K FREE
4T                                    0        2,15
```

Scanned with CamScanner

```
REVEDIT   ABHI.COURSE.JCLLIB(IEBGEN4) - 1.01                    COLUMNS 00001 00072
COMMAND ===>        subm                                         SCROLL ===> CSR
****** ********************************* TOP OF DATA ***********************************
000001 //IEBGEN4   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*            >> COPY BETWEEN PS AND PDS MEMBERS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS2,DISP=SHR
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    DUMMY
000011 /*
****** ********************************* BOTTOM OF DATA ********************************
                                                                                7704K FREE
I                                                   0        2,22
```

Scanned with CamScanner

```
REVEDIT   DATA SAVED                                          COLUMNS 00001 00072
COMMAND ===> su_                                              SCROLL ===> CSR
****** ******************************** TOP OF DATA ********************************
000001 //IEBGEN4   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*          >> COPY BETWEEN PS AND PDS MEMBERS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS2,DISP=SHR
000007 //          DD    DSN=ABHI.COURSE.PS3,DISP=SHR
000008 //          DD    DSN=ABHI.COURSE.PS4,DISP=SHR
000009 //SYSUT2    DD    DSN=ABHI.COURSE.PDS2(MEMBER2),DISP=SHR
000010 //SYSPRINT  DD    SYSOUT=*
000011 //SYSOUT    DD    SYSOUT=*
000012 //SYSIN     DD    DUMMY
000013 /*
****** ******************************** BOTTOM OF DATA *****************************
                                                                          7776K FREE
4T                                  0        2,17
```

Scanned with CamScanner

Summary

Copy between PS and PDS members

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PDS1(MEMBER1),DISP=SHR   <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PS2,DISP=SHR   <------ output dataset
---------------------------
//SYSIN    DD   DUMMY
/*
```

Scanned with CamScanner

IEBGENER – Sequential Copy/Generate Data Set Utility

Generate PDS member while copying

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR     <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2,DISP=SHR    <------ output dataset
--------------------------
//SYSIN    DD   *
         GENERATE MAXNAME=1
           MEMBER NAME=MEMBER1
/*
```

Scanned with CamScanner

```
REVEDIT  ABHI.COURSE.JCLLIB(IEBGEN5) - 1.00                    COLUMNS 00001 00072
COMMAND ===>                 save                              SCROLL ===> CSR
****** ********************************* TOP OF DATA *********************************
000001 //IEBGEN5   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*            >> GENERATE PDS MEMBER WHILE COPYING <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBGENER
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS2,DISP=SHR
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PDS7,DISP=SHR
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    *
000011              GENERATE MAXNAME=1
000012                MEMBER NAME=MEMBER1
000013 /*
****** ******************************** BOTTOM OF DATA ********************************
                                                                          7776K FREE
4T                                    0        2,29
```

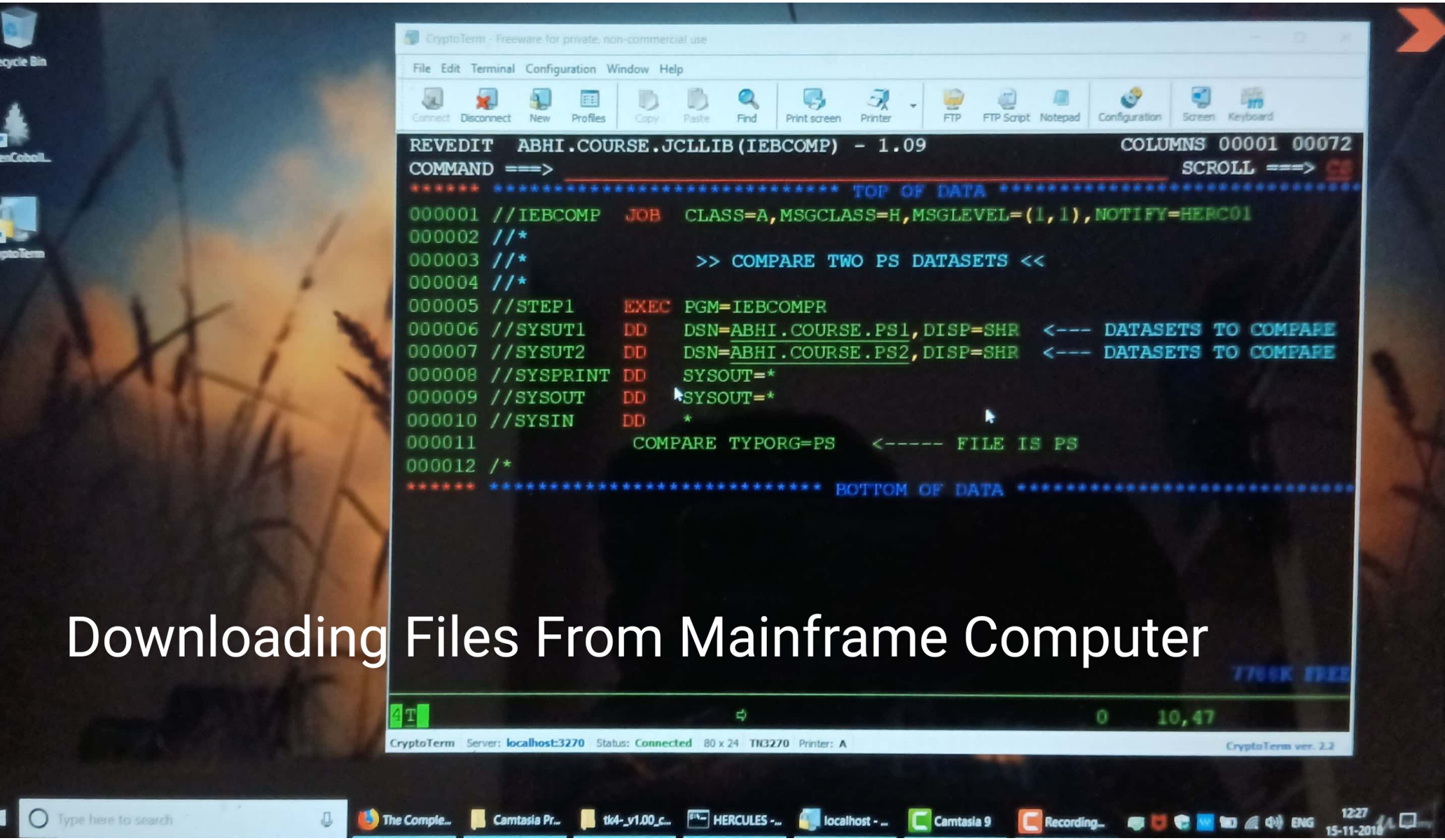
Scanned with CamScanner

Summary

Generate PDS member while copying

```
//----------JOBCARD---------
//STEP1    EXEC PGM=IEBGENER
//SYSUT1   DD   DSN=ABHI.COURSE.PS1,DISP=SHR     <------ input dataset
//SYSUT2   DD   DSN=ABHI.COURSE.PDS2,DISP=SHR    <------ output dataset
----------------------------
//SYSIN    DD   *
         GENERATE MAXNAME=1
           MEMBER NAME=MEMBER1
/*
```

Scanned with CamScanner



Downloading Files From Mainframe Computer

Scanned with CamScanner

CryptoTerm - Freeware for private, non-commercial use

File Edit Terminal Configuration Window Help

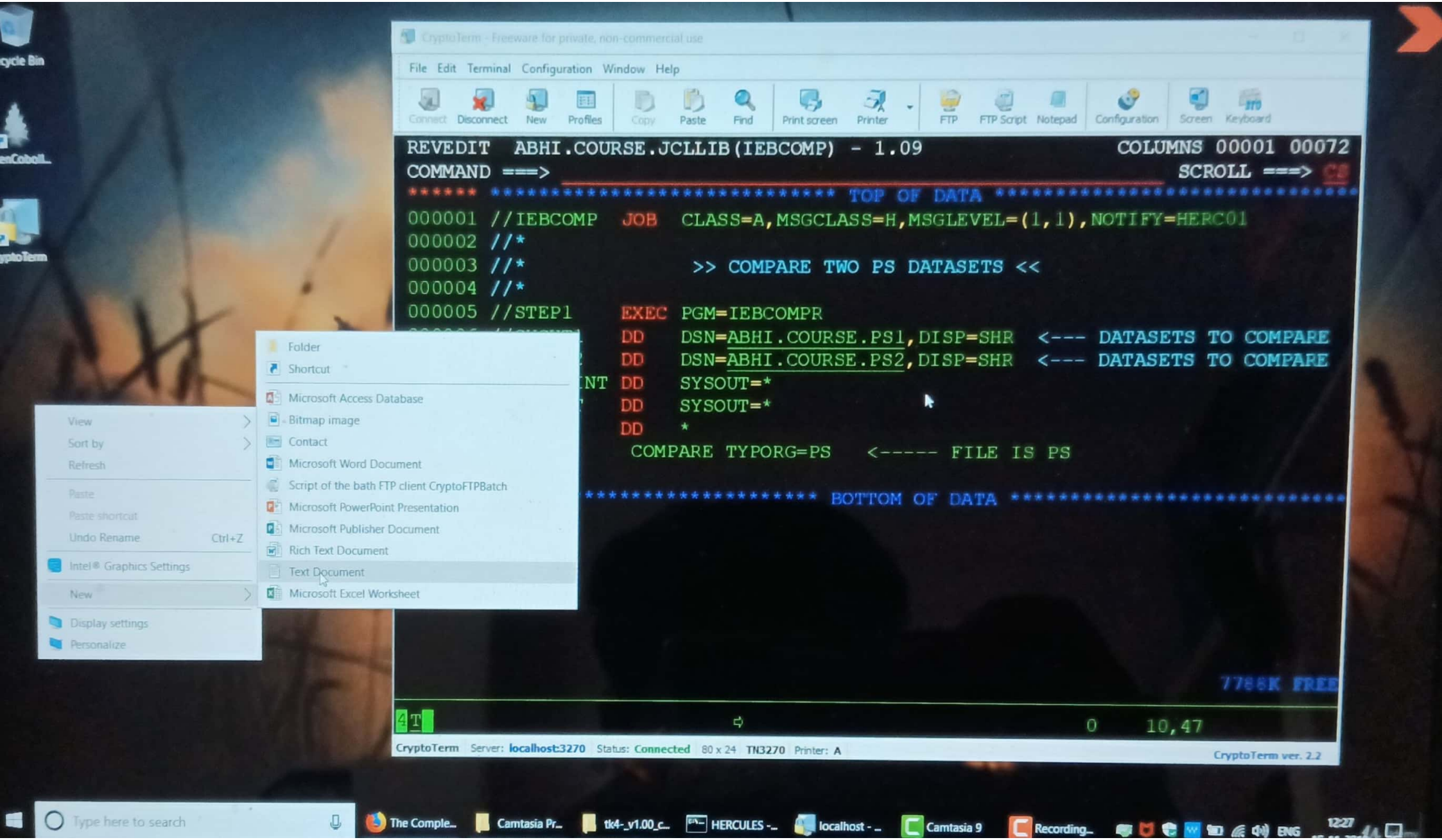
Connect Disconnect New Profiles Copy Paste Find Print screen Printer FTP FTP Script Notepad Configuration Screen Keyboard

```
REVEDIT   ABHI.COURSE.JCLLIB(IEBCOMP)                          COLUMNS 00001 00072
COMMAND ===>                                                   SCROLL ===> CSR
****** ***************************************************************************
000001 //IEBCOMP   JOB   CLASS=A,M                  L=(1,1),NOTIFY=HERC01
000002 //*
000003 //*                >> COMPA                  <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBCO
000006 //SYSUT1    DD    DSN=ABHI.C                  IR  <--- DATASETS TO COMPARE
000007 //SYSUT2    DD    DSN=ABHI.C                  IR  <--- DATASETS TO COMPARE
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    *
000011              COMPARE TYPORG                  E IS PS
000012 /*
****** ***************************************** BOTTOM OF DATA ******************
                                                                   7768K FREE
4T                                                   0     10,47
```

Connect
Connect to...
Disconnect
New window
Copy Ctrl+Ins
Paste Shift+Ins
Find...
Print screen
Full screen
Configuration
Key conversion - Application
Printer A: Default Printer
Exit

CryptoTerm Server: localhost:3270 Status: Connected 80 x 24 TN3270 Printer: A CryptoTerm ver. 2.2

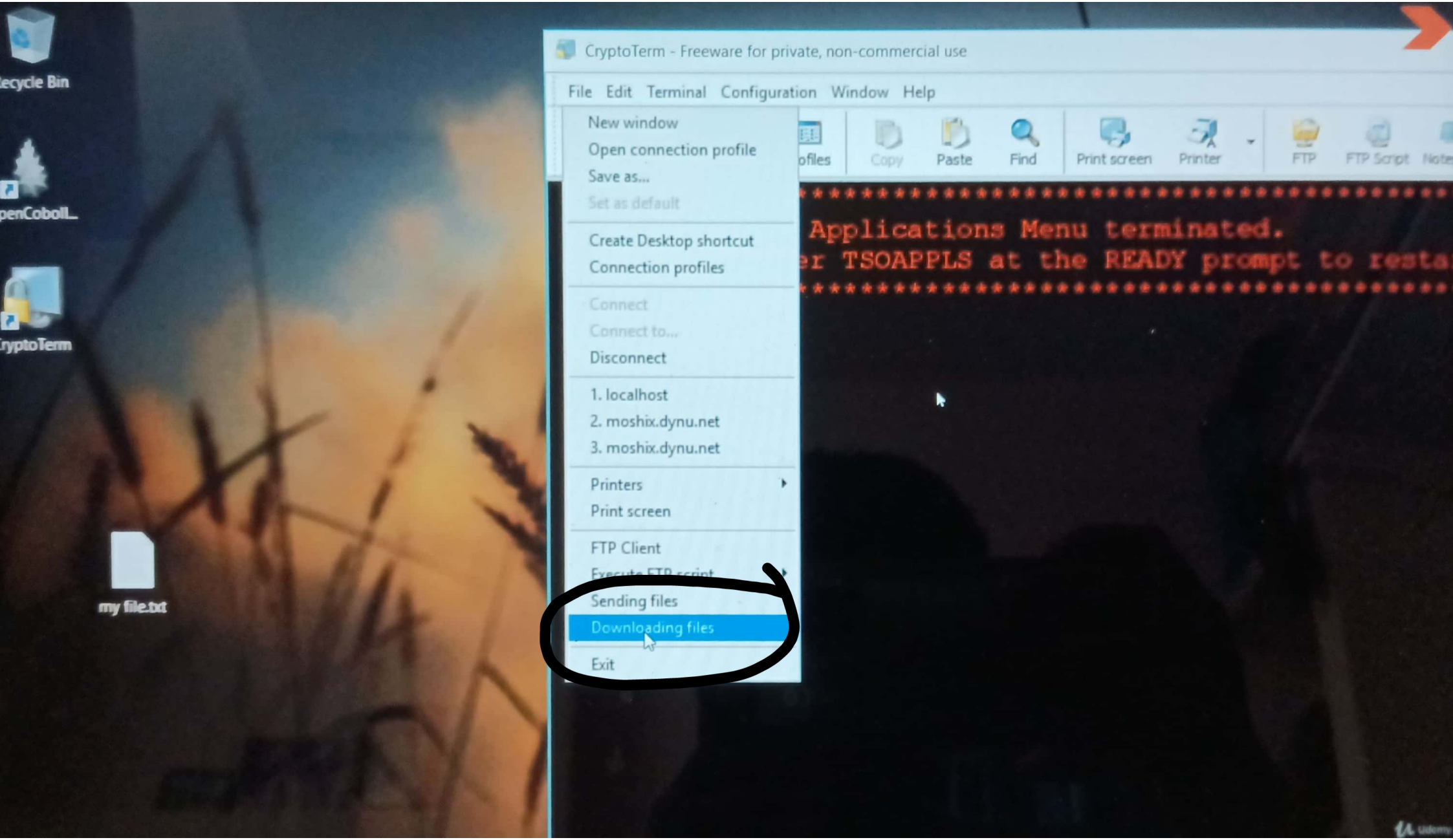
Scanned with CamScanner



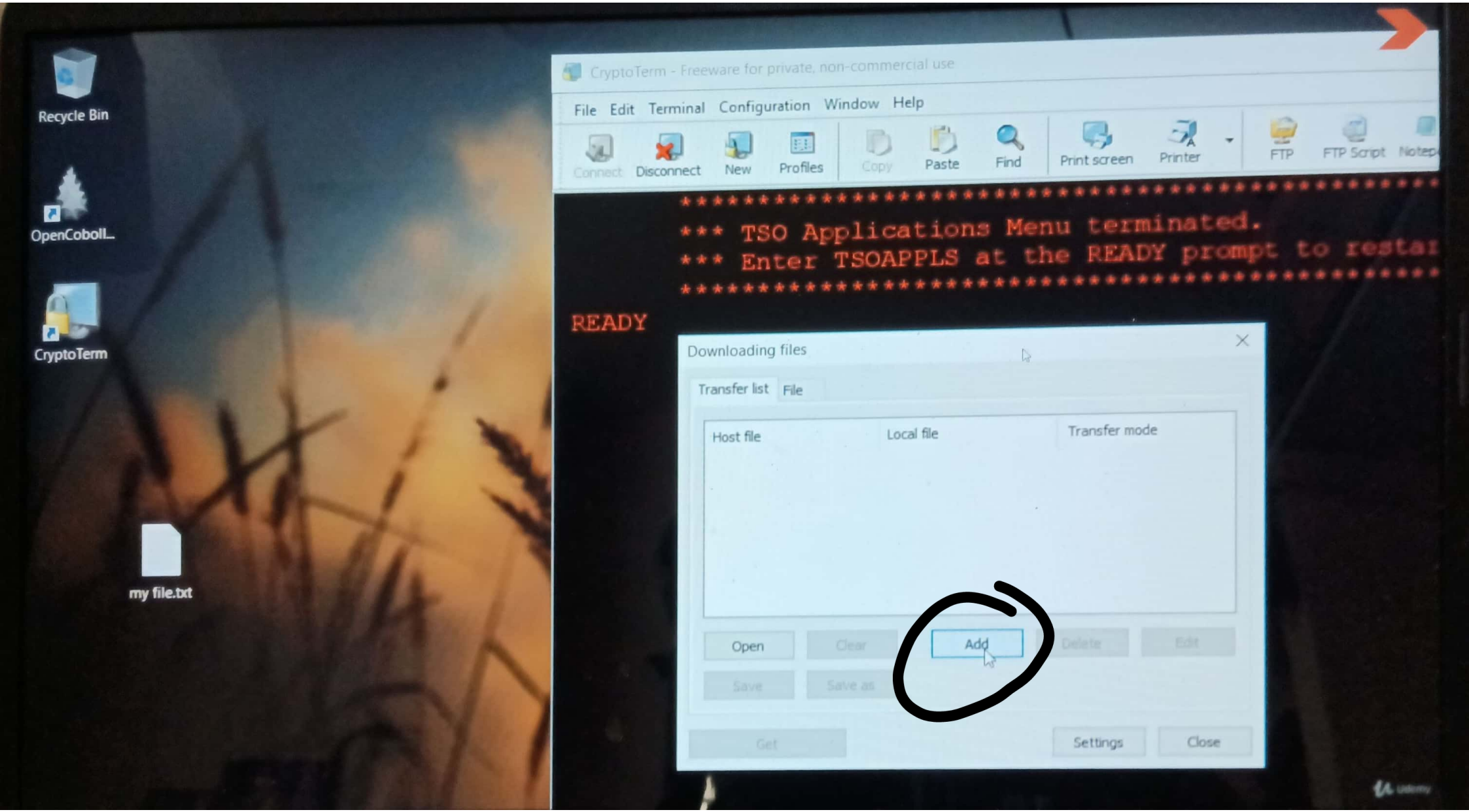
Scanned with CamScanner

```
*****************************************************
*** TSO Applications Menu terminated.            ***
*** Enter TSOAPPLS at the READY prompt to restart. ***
*****************************************************

READY

T                                   0     6,1
```

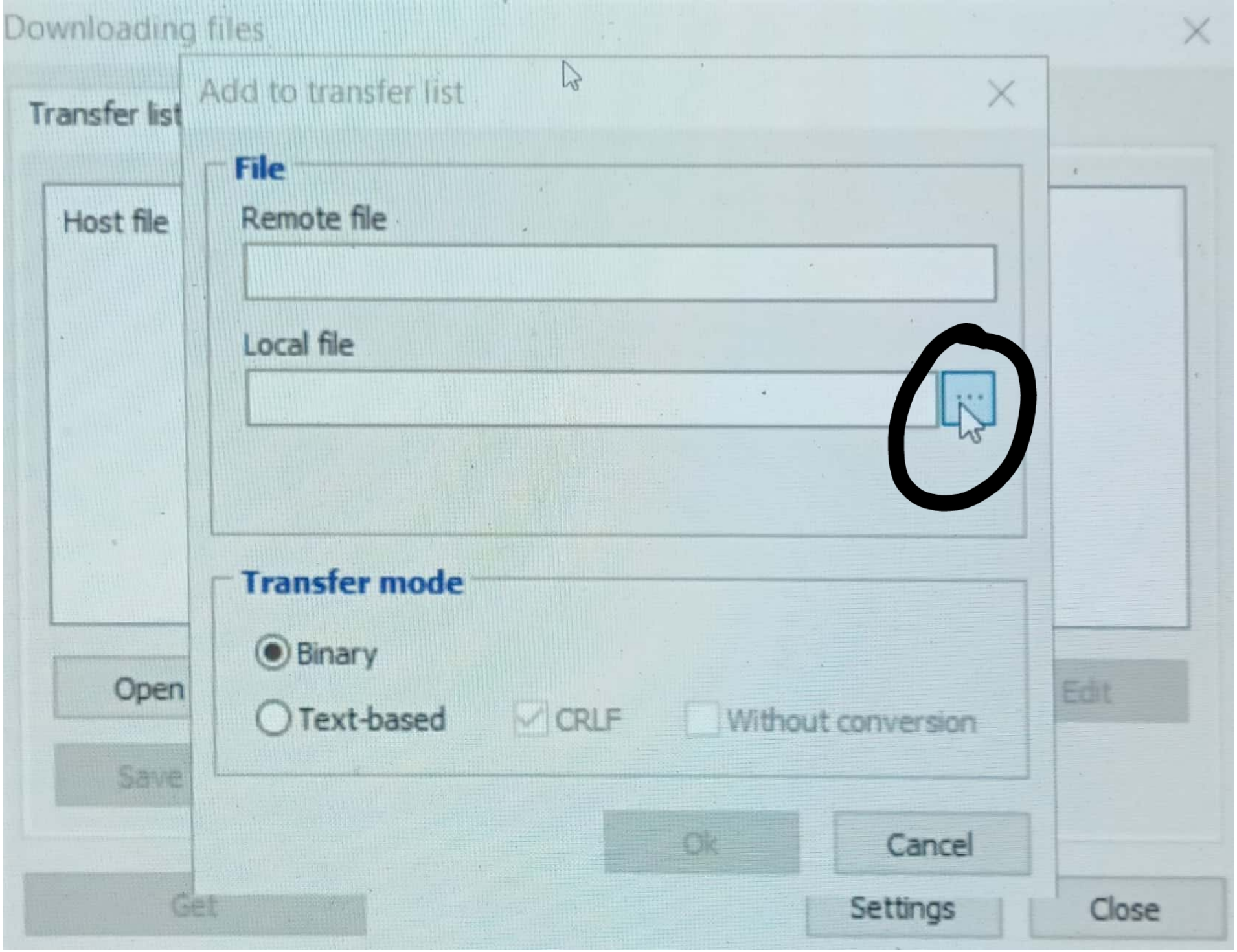
Scanned with CamScanner



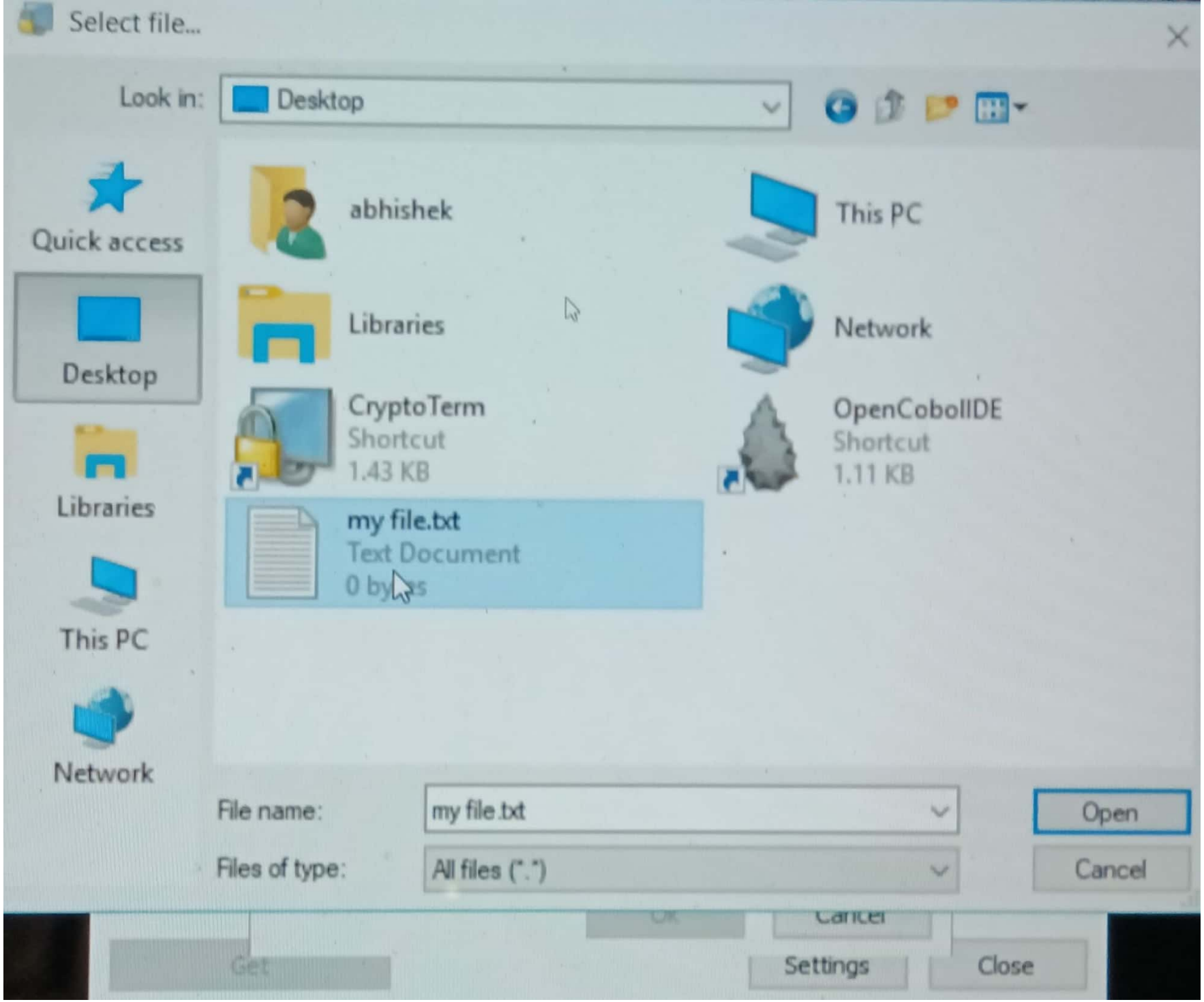
Scanned with CamScanner



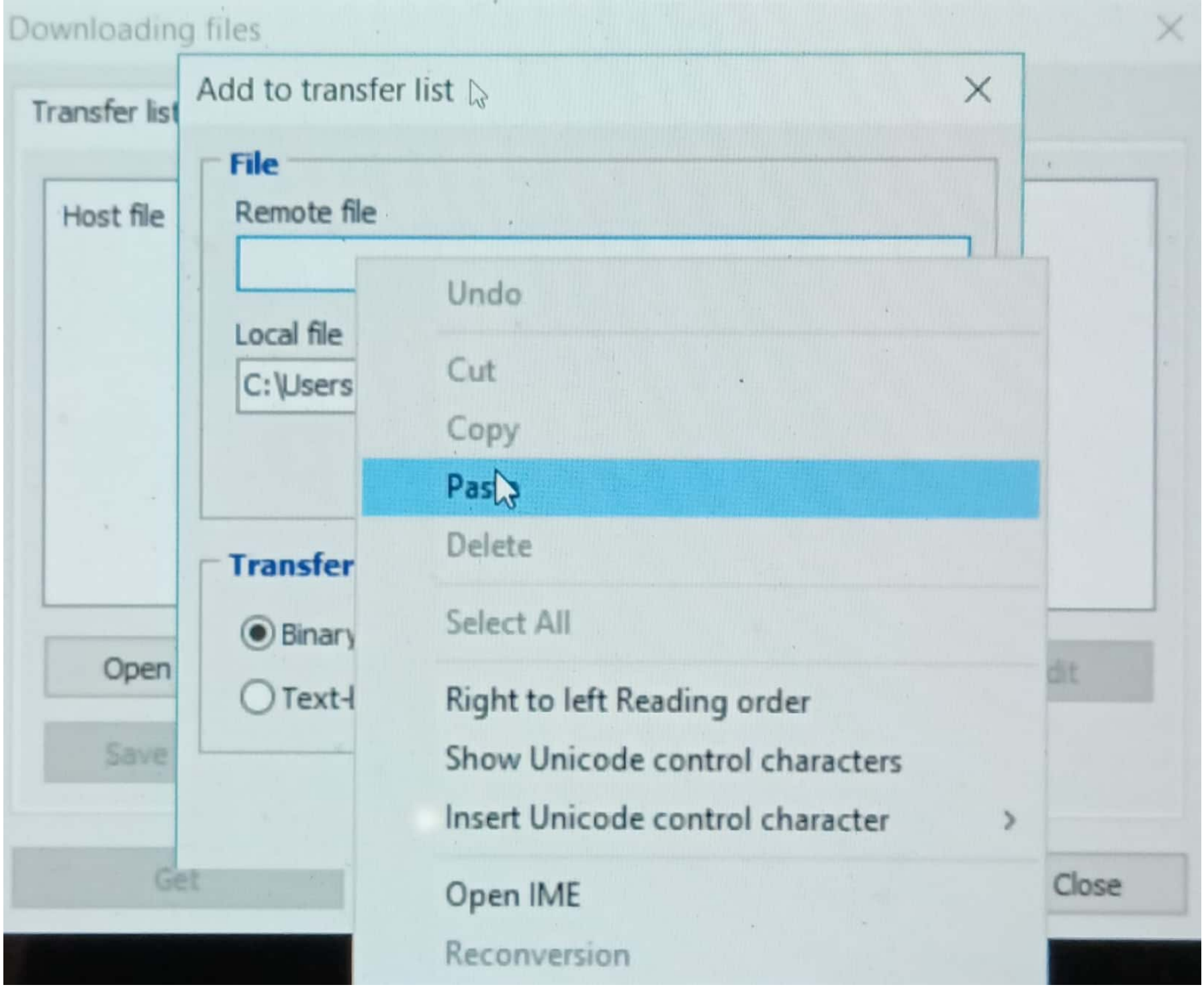
Scanned with CamScanner



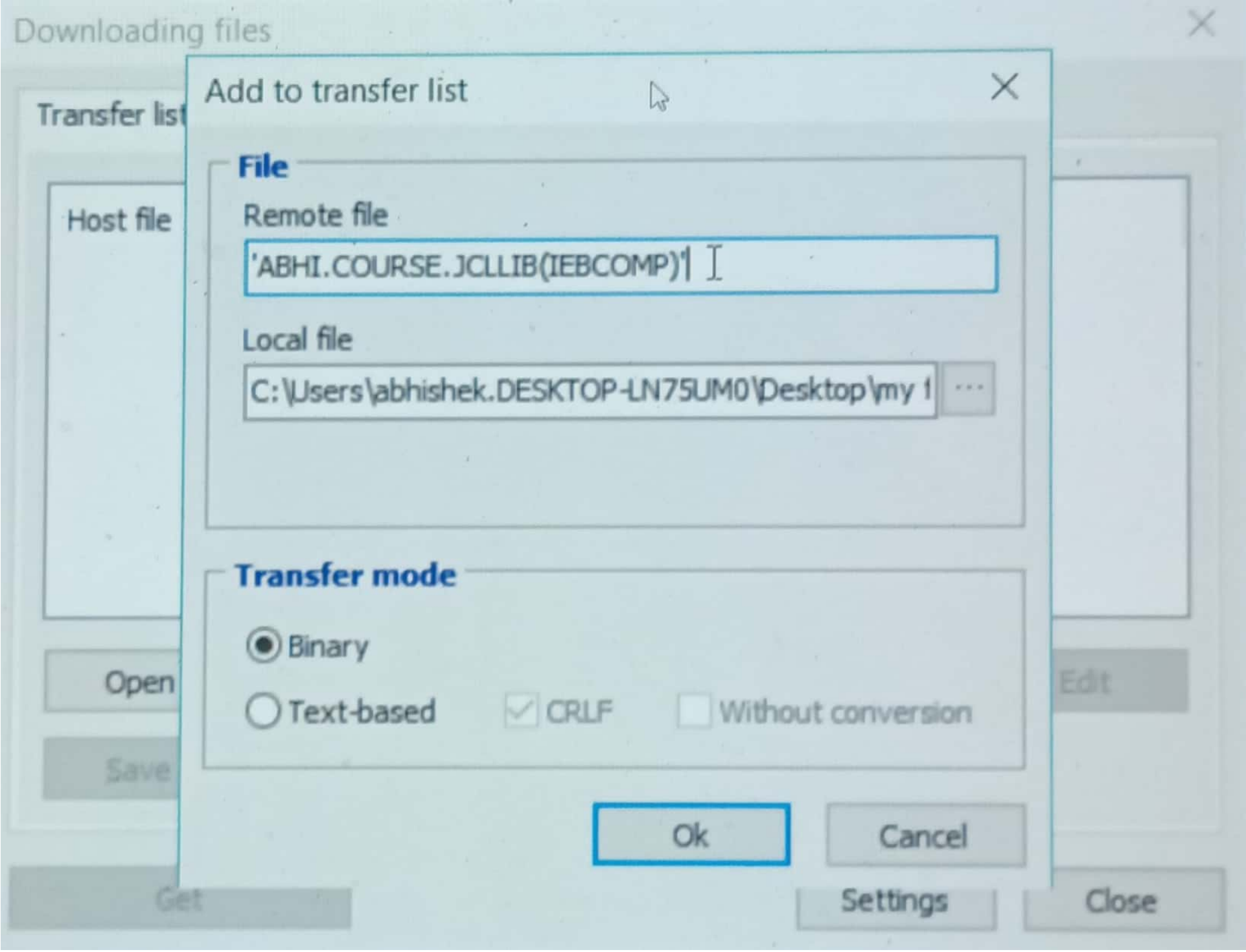
Scanned with CamScanner



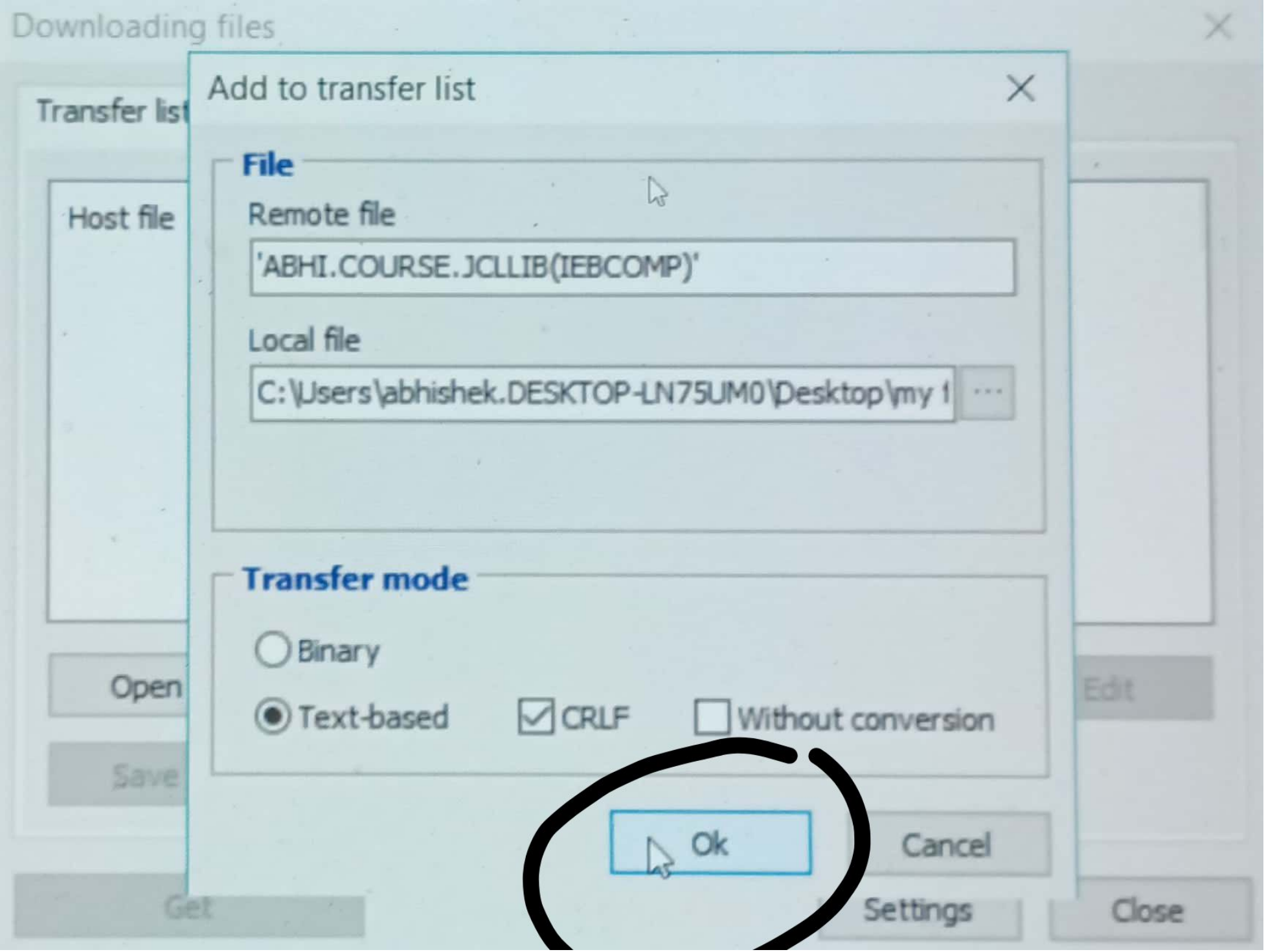
Scanned with CamScanner



Scanned with CamScanner



Scanned with CamScanner



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Downloading files

Transfer list | File

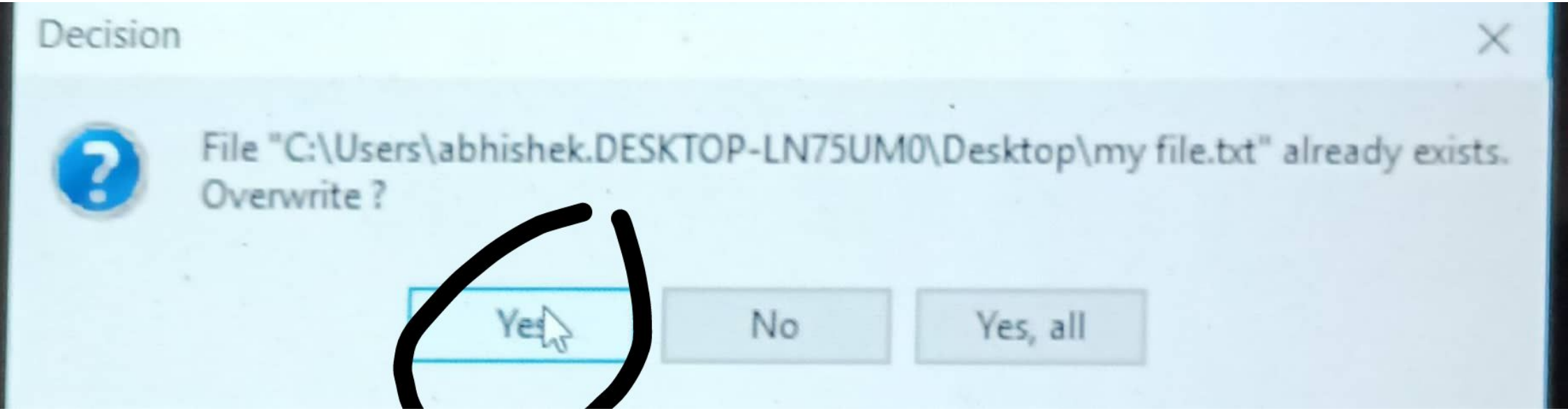
Host file	Local file	Transfer mode
'ABHI.COURSE.JCLLIB(IE...	C:\Users\abhishek.DESK...	Text-based (crlf)

Open | Clear | Add | Delete | Edit

Save | Save as

Get | Settings | Close

Scanned with CamScanner



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compare.txt - Notepad

```
//IEBCOMP   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1)
//*
//*                >> COMPARE TWO PS DATASETS <<
//*
//STEP1     EXEC  PGM=IEBCOMPR
//SYSUT1    DD    DSN=ABHI.COURSE.PS1,DISP=SHR   <--
//SYSUT2    DD    DSN=ABHI.COURSE.PS2,DISP=SHR   <--
//SYSPRINT  DD    SYSOUT=*
//SYSOUT    DD    SYSOUT=*
//SYSIN     DD    *
          COMPARE TYPORG=PS    <----- FILE IS PS
/*
```

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```
*****************************************************
*** TSO Applications Menu terminated.            ***
*** Enter TSOAPPLS at the READY prompt to restart. ***
*****************************************************

READY
```

CryptoTerm Server: localhost:3270 Status: Connected 80 x 24 TN3270 Printer: A CryptoTerm ver. 2.2

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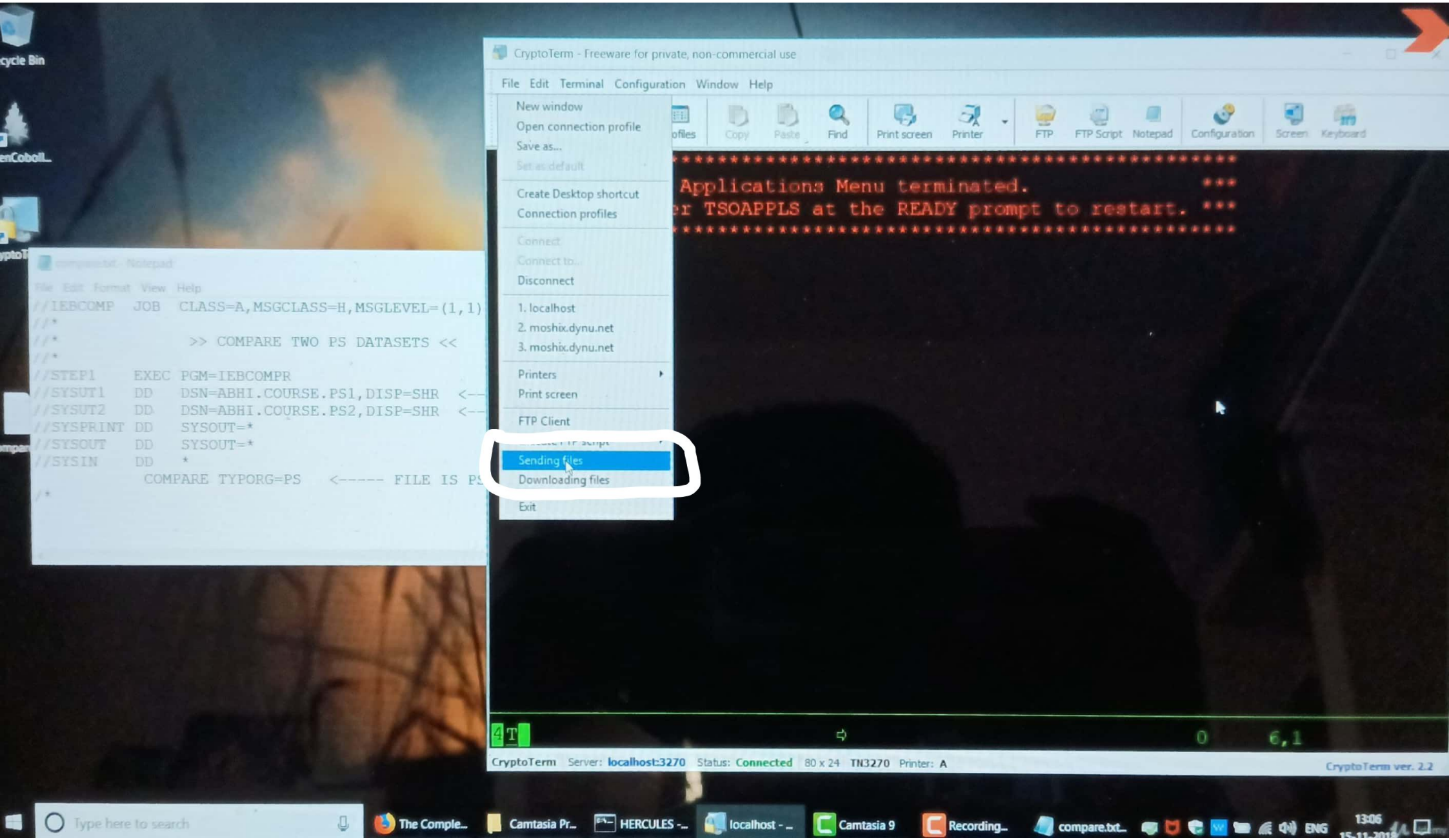
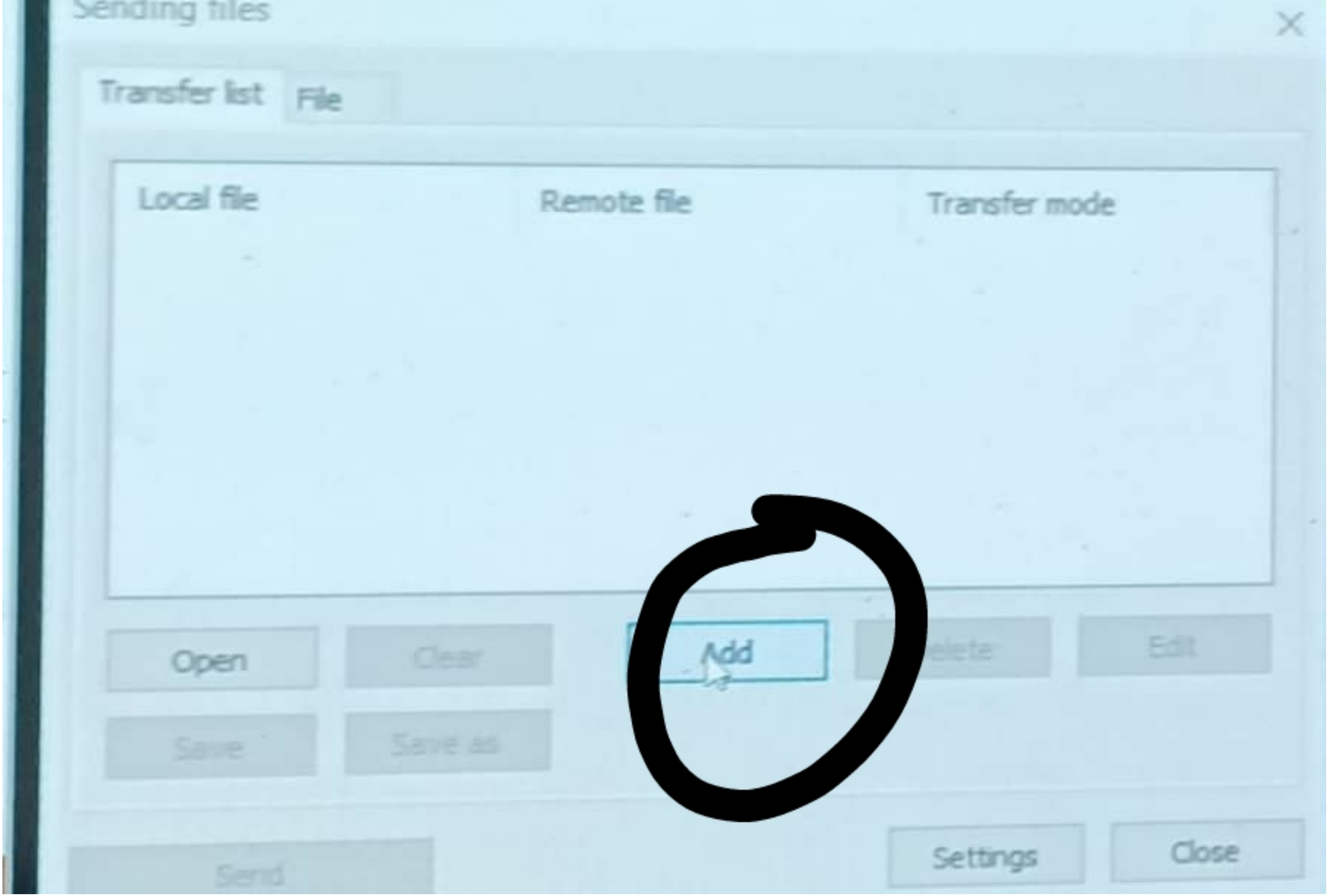
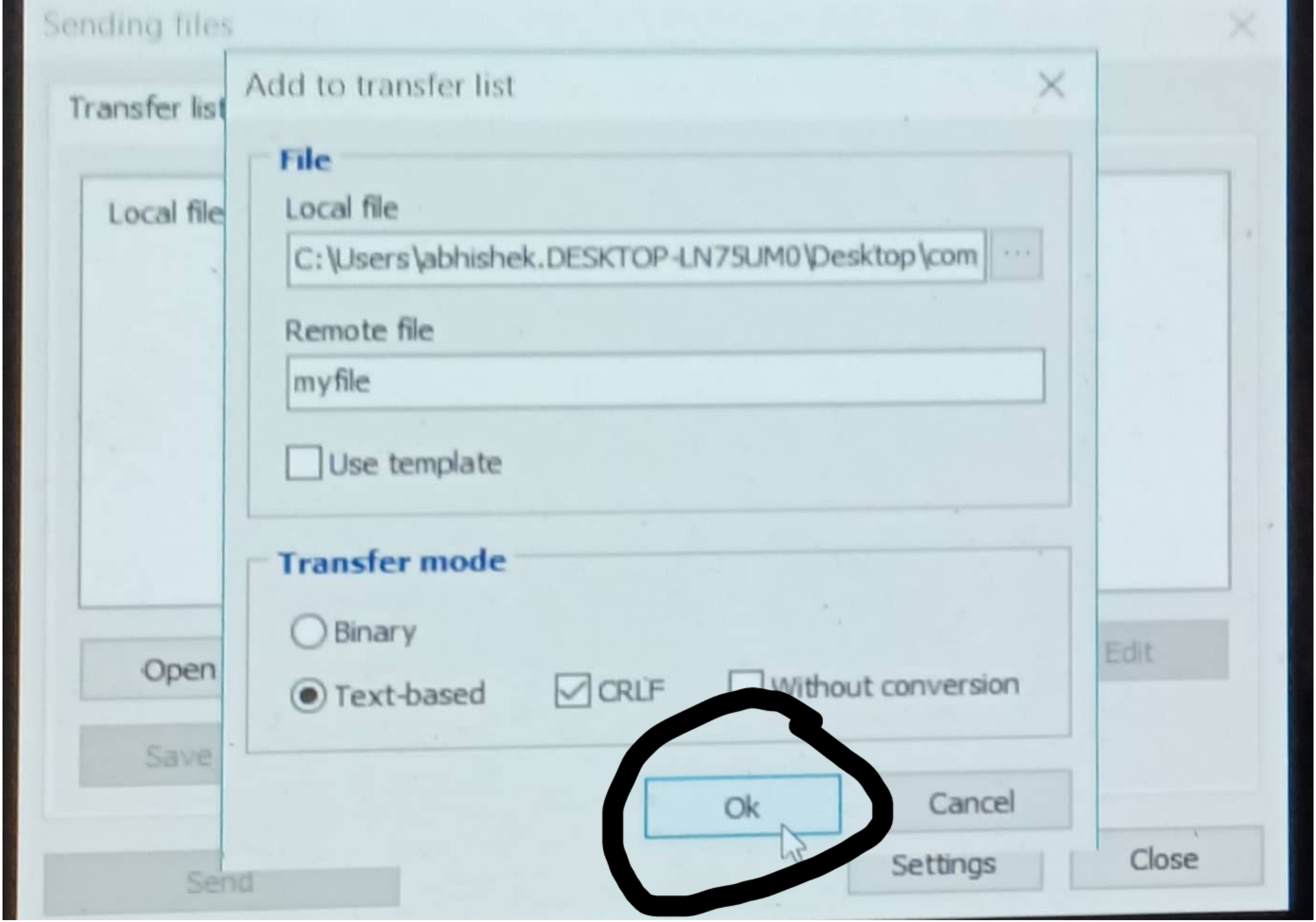


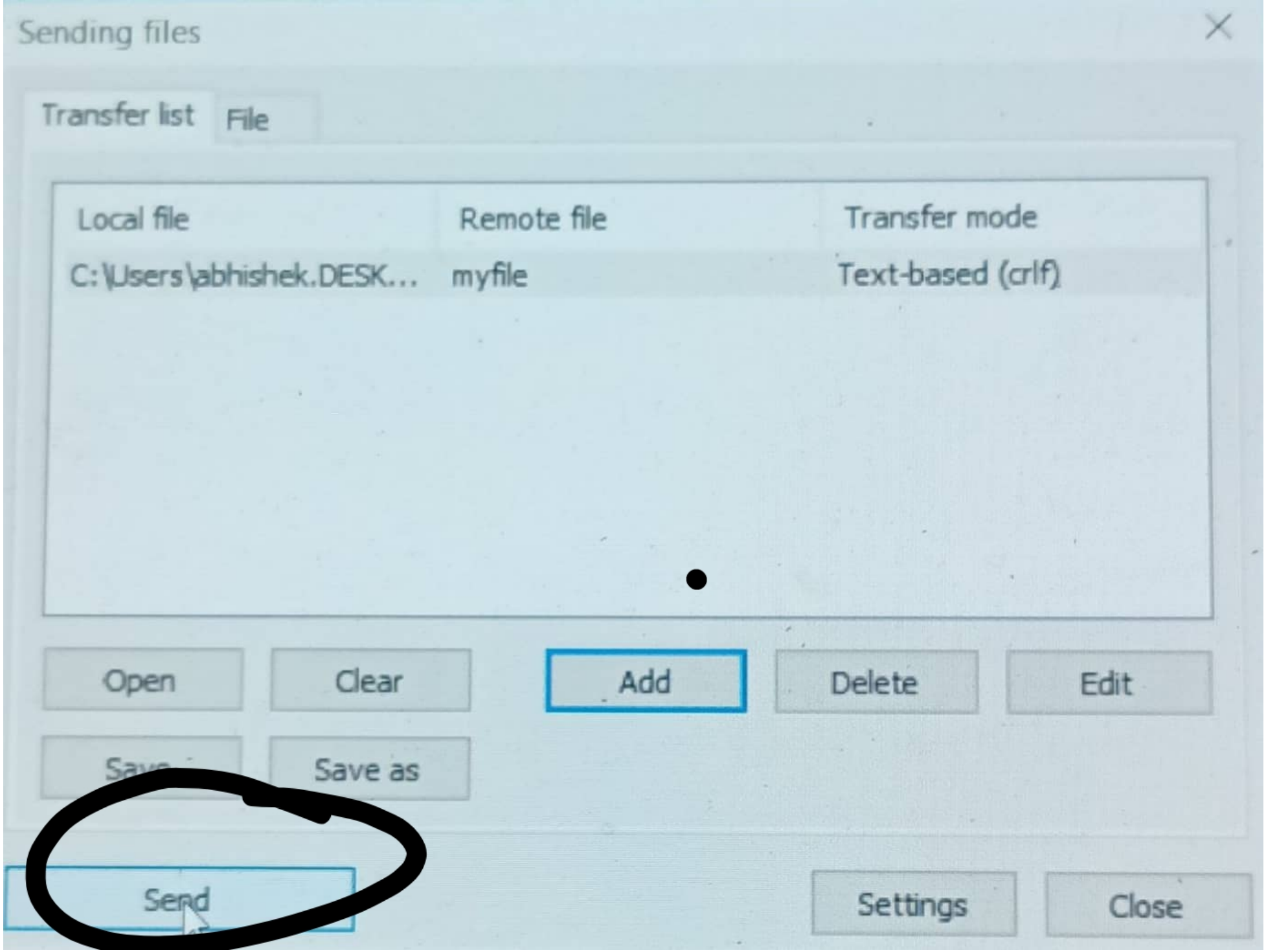
Scanned with CamScanner



Scanned with CamScanner



Scanned with CamScanner



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File Edit Terminal Configuration Window Help

Connect Disconnect New Profiles Copy Paste Find Print screen Printer FTP FTP Script Notepad Configuration Screen Keyboard

```
-------------------------------- RFE DSLIST ---------------------------- Row 1 of
Command ===>                                                   Scroll ===> C
S DATA-SET-NAME------------- VOLUME ALTRK USTRK ORG FRMT % XT LRECL BLKSZ REF
  HERC01.CHDPROF             PUB003    15     1 PO  FB   6  1    80 19040 183
  HERC01.MYFILE              MVSCAT     1     1 PS  VB 100  1   255 14790 183
  HERC01.REVDATA1.BACKUP     MVSCAT  1500     1 PO  FB   0  1    92  4048 183
  HERC01.REVPROF             PUB010     2     2 PO  FB 100  1    80  2960 183
  HERC01.TEST.ASM            PUB011    12     1 PO  FB   8  1    80 19040 183
  HERC01.TEST.CNTL           PUB002    15     1 PO  FB   6  1    80 19040 183
  HERC01.TEST.LOADLIB        PUB010    30     1 PO  U    3  1       19069 183
  **END**     TOTALS:     1575 TRKS ALLOC        8 TRKS USED        7 EXTENTS

                                                                   7888K F
4T                                                   0      2,15
```

CryptoTerm Server: localhost:3270 Status: Connected 80 x 24 TN3270 Printer: A CryptoTerm ve

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File Edit Terminal Configuration Window Help

Connect Disconnect New Profiles Copy Paste Find Print screen Printer FTP FTP Script Notepad Configuration Screen Keyboard

```
REVEDIT  REVEDIT1.BACKUP NOT REUSED                    COLUMNS 00001 00072
COMMAND ===>                                            SCROLL ===> CS
****** ************AUTOSAVE********** TOP OF DATA ********************************
000001 //IEBCOMP   JOB   CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=HERC01
000002 //*
000003 //*                >> COMPARE TWO PS DATASETS <<
000004 //*
000005 //STEP1     EXEC  PGM=IEBCOMPR
000006 //SYSUT1    DD    DSN=ABHI.COURSE.PS1,DISP=SHR  <--- DATASETS TO COMPARE
000007 //SYSUT2    DD    DSN=ABHI.COURSE.PS2,DISP=SHR  <--- DATASETS TO COMPARE
000008 //SYSPRINT  DD    SYSOUT=*
000009 //SYSOUT    DD    SYSOUT=*
000010 //SYSIN     DD    *
000011              COMPARE TYPORG=PS   <----- FILE IS PS
000012 /*
****** ************AUTOSAVE********* BOTTOM OF DATA ********************************
                                                                  7800K FREE
4I                                                0       2,15
```

CryptoTerm Server: localhost:3270 Status: Connected 80 x 24 TN3270 Printer: A CryptoTerm ver. 2.2

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File Edit Terminal Configuration Window Help

Connect Disconnect New Profiles Copy Paste Find Print screen Printer FTP FTP Script Notepad Configuration Screen Keyboard

```
--------------------------------- RFE DSLIST ---------------------- Row 1 of 8
Command ===>                                                  Scroll ===> CS
S DATA-SET-NAME------------- VOLUME ALTRK USTRK ORG FRMT % XT LRECL BLKSZ REFDT
* HERC01.CMDPROC              PUB003    15     1 PO   FB   6  1     0 19040 18319
* HERC01.MYFILE              EMVSCAT     1     1 PS   VB 100  1   255  4790 18319
* HERC01.REVEDIT1.BACKUP      MVSCAT   1500     1 PO   FB   0  1     0  4048 18319
* HERC01.REVPROF              PUB010     2     2 PO   FB 100  1    80  2960 18319
* HERC01.TEST.ASM             PUB011    12     1 PO   FB   8  1    80 19040 18319
* HERC01.TEST.CNTL            PUB002    15     1 PO   FB   6  1    80 19040 18319
* HERC01.TEST.LOADLIB         PUB010    30     1 PO   U    3  1       19069 18319
  **END**     TOTALS:     1575 TRKS ALLOC        8 TRKS USED        7 EXTENTS

                                                                  7888K FREE
4T                                    0      5,2
```

CryptoTerm Server: localhost:3270 Status: Connected 80 x 24 TN3270 Printer: A CryptoTerm ver. 2.2

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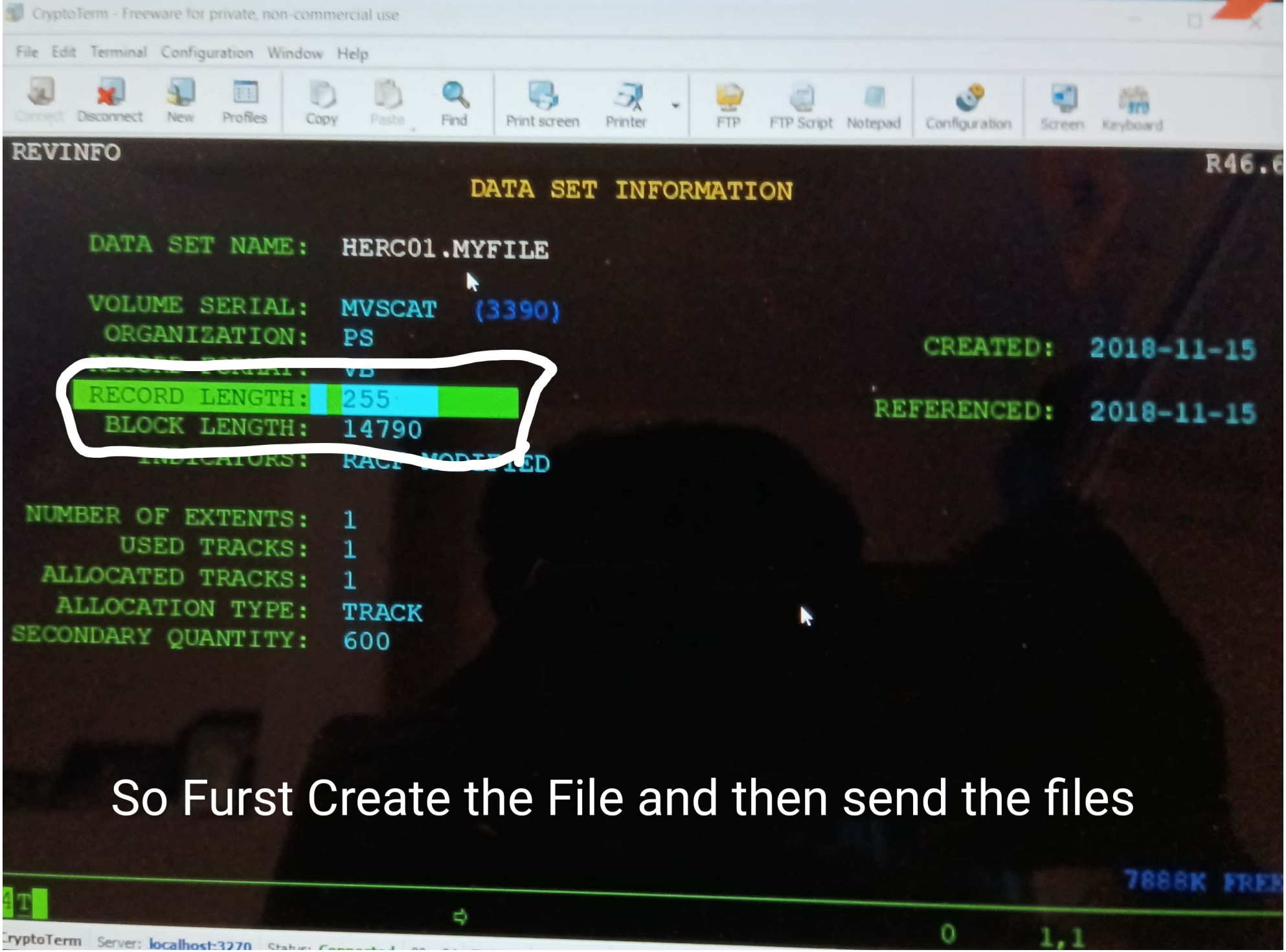

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