```sas
LIBNAME SSN3 '/home/debendra330/BATCH_202404/SESSION_3/A3.SAS_DATASET';
RUN;

/* IMPORTING DATA FROM AN EXCEL FILE */
=======================================

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A11.EXCEL FILE/a1.MED_STORE_2020.xlsx'
            DBMS=XLSX REPLACE;
RUN;

/* TO EXPORT DATA INTO EXCEL FILE */
=====================================

PROC EXPORT DATA=SSN3.MED_2024
            OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_2024_EXCEL.xlsx'
            DBMS=XLSX REPLACE;
RUN;

/* HOW TO IMPORT DATA FROM AN EXCEL FILE WITH MULTIPLE SHEETS */
===============================================================

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_APPOLO
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A11.EXCEL FILE/a2.MED_STORE_BY_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_APPOLO';
RUN;

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_CIPLA
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A11.EXCEL FILE/a2.MED_STORE_BY_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_CIPLA';
RUN;

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_GSK
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A11.EXCEL FILE/a2.MED_STORE_BY_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_GSK';
RUN;

/* HOW TO EXPORT DATA TO AN EXCEL FILE WITH MULTIPLE SHEETS */
=============================================================

PROC EXPORT DATA=SSN3.MED_APPOLO
            OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_ALL_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_APPOLO';
RUN;

PROC EXPORT DATA=SSN3.MED_CIPLA
            OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_ALL_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_CIPLA';
RUN;

PROC EXPORT DATA=SSN3.MED_GSK
            OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_ALL_COMPANY.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='MED_GSK';
RUN;

/* HOW TO READ DATA FROM AN EXCEL FILE IN A GIVEN RANGE */
=========================================================

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_RANGE
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A11.EXCEL FILE/a3.MED_DATA_RANGE.xlsx'
            DBMS=XLSX REPLACE;
            RANGE='DV$D5:O28';
RUN;

PROC EXPORT DATA=SSN3.MED_RANGE
            OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_RANGE.xlsx'
            DBMS=XLSX REPLACE;
            RANGE='DV$D5:O28';
RUN;

/* WE CANNOT EXPORT DATA BY A GIVEN RANGE */

/* HOW TO IMPORT AND EXPORT DATA FROM A TEXT FILE */
===================================================

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024_TXT
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A12.TEXT FILE/MED_New_2016.txt'
            DBMS=DLM REPLACE;
            DELIMITER=',';
RUN;

/* TO EXPORT */

PROC EXPORT DATA=SSN3.MED_2024
```

```
                OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_2024_TXT.txt'
                DBMS=DLM REPLACE;
                DELIMITER='|';
RUN;

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024_TXT2
                DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A12.TEXT FILE/MED_New_2020.txt'
                DBMS=DLM REPLACE;
                DELIMITER='|';
RUN;

/* HOW TO IMPORT AND EXPORT DATA FROM CSV */
=============================================

/* IMPORTING DATA */
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024_CSV
                DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A12.TEXT FILE/MED_New_2016.csv'
                DBMS=CSV REPLACE;
RUN;

/* EXPORTING DATA */
PROC EXPORT DATA=SSN3.MED_2024_CSV
                OUTFILE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_2024_CSV.csv'
                DBMS=CSV REPLACE;
RUN;

/* HOW TO IMPORT AND EXPORT FROM ACCESS DB FILE */
===================================================

/* IMPORT  */

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024_ACCESS
                DATATABLE='MED'
                DBMS=ACCESS REPLACE;
                DATABASE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A13.ACCESS DATABASE/MED.accdb';
RUN;

/* EXPORT */

PROC EXPORT DATA=SSN3.MED_2024_ACCESS
                OUTTABLE='MED'
                DBMS=ACCESS REPLACE;
                DATATABLE='/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_ACCESS.accdb';
RUN;

/* HOW TO DO IMPORTING AND EXPORTING DATA FROM SERVERS */
=========================================================

LIBNAME SQL ODBC DSN='<PATH AND SERVER NAME>' SCHEMA='<SCHEMA NAME>';
RUN;

DATA SSN3.MED_2024;
SET SQL.MED_2024;
KEEP CUSTOMER_ID CUSTOMER_NAME GENDER AGE STATE_CODE;
RUN;

LIBNAME SQL ODBC DSN='sqlserver_usa' SCHEMA='BATCH_202301';

DATA SSN3.MED_2023;
SET SQL.MED_2023;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
RUN;

LIBNAME ORACL ODBC DSN='oracleserver_usa' SCHEMA='BATCH_202301';

DATA SSN3.MED_2023;
SET ORACL.MED_2023;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
RUN;

LIBNAME TRD ODBC DSN='teradata_usa' SCHEMA='BATCH_202301';

DATA SSN3.MED_2023;
SET TRD.MED_2023;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
RUN;

LIBNAME DB2 ODBC DSN='db2_INDIA' SCHEMA='C';

DATA SSN3.MED_2023;
SET DB2.MED_2023;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
RUN;

/* OR */

PROC SQL;
CONNECT TO SQL (USER=AYASH@100 PASSWORD=AYASH@1234 PATH=BATCH_202301)
CREATE TABLE SSN3.MED_2024 AS
(SELECT * FROM SQL.MED_2024);
QUIT;

PROC SQL;
CONNECT TO SQL (USER=deb@123 PASSWORD=dv@1234 PATH=BATCH_202301);
```

```sas
CREATE TABLE SSN3.MED_2023
AS
(SELECT
CUSTOMER_ID,
COMPANY,
GENDER,
AGE,
STATE_CODE,
SPENT_AMOUNT
FROM BATCH_202301.MED_2023
WHERE COMPANY='APPOLO' AND GENDER='Female' );
QUIT;

PROC SQL;
CONNECT TO ORACLE (USER=deb@123 PASSWORD=dv@1234 PATH=BATCH_202301);
CREATE TABLE SSN3.MED_2023
AS
(SELECT
CUSTOMER_ID,
COMPANY,
GENDER,
AGE,
STATE_CODE,
SPENT_AMOUNT
FROM BATCH_202301.MED_2023
WHERE COMPANY='APPOLO' AND GENDER='Female' );
QUIT;

/* PROC DOWNLOAD AND PROC UPLOAD AND HDFS CONNECTION */
/* =============================================== */

FILENAME LOCREF 'C:\MYDATA';
RSUBMIT;
/* REMOTE SUBMIT */
    FILENAME FREF '/LOCAL/PROGRAMS';
    PROC UPLOAD INFILE=LOCREF('.SAS')
                OUTFILE=FREF;
    RUN;
ENDRSUBMIT;


FILENAME LOCHOST 'C:\MYDATA';
RSUBMIT;
    FILENAME REMHOST '/USER/PROGS';
    PROC DOWNLOAD INFILE=REMHOST ('F*.SAS')
                  OUTFILE=LOCHOST;
    RUN;
ENDRSUBMIT;

/* PROC DOWNLOAD AND PROC UPLOAD */
/* HOW TO CONNECT HADOOP DISTRIBUTED FILING SYSTEM */

/* HOW TO REACH DATA FROM A TEXT FILE USING INFILE STATEMENT */
======================================================================

/* SCENARIO-1 */
==============================

/* READING DATA FROM FIXED FORMAT FILE */

DATA MED_1;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A1.MED_Data1.txt';
INPUT CUSTOMER_ID 1-10 COMPANY $ 11-20 GENDER $ 21-29 AGE 30-32 STATE_CODE $ 33-36 SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED_1;
RUN;

/* HOW TO EXPORT DATA TO A FIXED FORMAT FILE */

DATA ABC;
SET MED_1;
FILE '/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_1.txt';
PUT CUSTOMER_ID 1-11 COMPANY $ 13-20 GENDER $ 22-29 AGE 32-34 STATE_CODE $ 36-40 SPENT_AMOUNT;
RUN;

DATA _NULL_;
SET MED_1;
FILE '/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_2.txt';
PUT CUSTOMER_ID 1-11 COMPANY $ 13-20 GENDER $ 22-29 AGE 32-34 STATE_CODE $ 36-40 SPENT_AMOUNT;
RUN;

/* WE USE _NULL_ WHILE EXPORTING DATA TO AN EXTERNAL FILE WHEN USING THE FILE STATEMENT */

/* SCENARIO-2 */
============================

/* READING DATA */

DATA MED2;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A2.MED_Data2.txt' DLM=',';
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT;
RUN;
```

```sas
/* HOW TO WRITE DATA */

DATA _NULL_;
SET MED2;
FILE '/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_AUS.txt' DLM='|';
PUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;


/* HOW TO EXPORT DATA WITH HEADERS */

DATA _NULL_;
SET MED2;
FILE '/home/debendra330/BATCH_202404/SESSION_3/A4.SAS_OUTPUT/MED_AUS.txt' DLM='|';
IF _N_=1 THEN DO;
PUT 'CUSTOMER_ID|COMPANY|GENDER|AGE|STATE_CODE|SPENT_AMOUNT';
END;
PUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

/* _N_ REPRESENTS THE LINE NUMBER. */

/* 1. INFILE VS FILE  */
/* ANS.  */

/* INFILE IS USED TO READ DATA FROM EXTERNAL FILE */
/* FILE IS USED TO WRITE DATA TO AN EXTERNAL FILE */

/* 2. INPUT VS PUT */
/* ANS.  */

/* INPUT IS USED TO DEFINE THE COLUMN INPUT WHILE READING DATA */
/* PUT STATEMENT IS USED TO DECLARE COLUMN OUTPUT WHILE WRITING DATA */

/* SCENARIO-3 */
===============================
DATA MED4;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A4.MED_Data4.txt' DLM=',' MISSOVER;
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED4;
RUN;

/* WE USE MISSOVER AS AN OPTION WITH INFILE STATEMENT TO READ DATA PROPERLY IN THE END OF THE LINE */

/* SCENARIO-4 */
======================================
DATA MED5;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A5.MED_Data5.txt' DSD DLM=',' MISSOVER;
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED5;
RUN;


/* DSD - DELIMITER SENSITIVE DATA */

/* DSD ALLLOWS YOU TO READ DATA WHEN VALUES ARE MISSIING IN BETWEEN THE DATALINE */

/* SCENARIO-5 */
==========================================
DATA MED6;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A5.MED_DATA6.txt' DSD DLM=',';
INPUT EMP_ID GENDER $ AGE DEPARTMENT $ ADDRESS : $100. SALARY $;
RUN;

PROC PRINT DATA=MED6;
RUN;

/* DSD -- */

/* 1. VALUES ARE MISSING IN BETWEEN THE DATALINES */
/* 2. TO READ DATA WHEN WE HAVE TEXT QUALIFIERS */

/* INTERVIEW QUESTIONS -  */

/* 1. DSD */
/* 2. DLM */
/* 3. MISSOVER */

/* SCENARIO-6 */
==========================
DATA MED7;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A6.MED_Data6.txt' DLM=',' DSD MISSOVER FIRSTOBS=4;
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED7;
RUN;

/* SCENARIO-7 */
==========================
```

```sas
/* FROM 4TH LINE TO 10TH LINE */
DATA MED7_V1;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A6.MED_Data6.txt' DLM=',' DSD MISSOVER FIRSTOBS=4 OBS=10;
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED7_V1;
RUN;

/* ONLY THE 10TH OBS */
DATA MED7_V2;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A6.MED_Data6.txt' DLM=',' DSD MISSOVER FIRSTOBS=10 OBS=10;
INPUT CUSTOMER_ID COMPANY $ GENDER $ AGE STATE_CODE $ SPENT_AMOUNT;
RUN;

PROC PRINT DATA=MED7_V2;
RUN;

PROC PRINT DATA=MED7 (OBS=10);
RUN;

PROC PRINT DATA=MED7 (FIRSTOBS=5 OBS=10);
RUN;

PROC PRINT DATA=MED7 (FIRSTOBS=5 OBS=5);
RUN;

/* CAN YOU CREATE A NEW DATASET FROM EXISTING DATASET BY SELECTING THE NUMBER OF OBSERVATIONS */

DATA MED7_V3;
SET MED7 (OBS=10);
RUN;

PROC PRINT;
RUN;

/* HOW TO IMPORT DATA IN SAS AND READ LOG FILE */
=======================================================

OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN3.MED_2024
            DATAFILE='/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A10.MED_New_2016.txt'
            DBMS=DLM REPLACE;
            DELIMITER=',';
RUN;


data SSN3.MED_2024 ;
infile '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A10.MED_New_2016.txt' delimiter = ',' MISSOVER DSD lrecl=32767 fir
informat Company $9. ;
informat CARD_REG_DATE anydtdtm40. ;
informat CARD_ACTIVE $1. ;
informat FIRST_USE_DTE anydtdtm40. ;
informat firstSTOR best32. ;
informat TITLE $4. ;
informat GENDER $6. ;
informat max_spent best32. ;
informat DOB ddmmyy10. ;
informat FTD anydtdtm40. ;
informat Age best32. ;
informat STATE_CODE $3. ;
informat POST_CODE best32. ;
informat CUST_STAT $6. ;
informat Avgsize_spent best32. ;
informat CARD_STAT $10. ;
informat RGSTN_TYPE_IND $6. ;
informat NO_OF_TRIPS best32. ;
informat TOWN $14. ;
informat EMAIL_IND $1. ;
informat CONTACT_PREF $5. ;
informat Average_Qty_PER_ACC best32. ;
informat Spent_amount best32. ;
format CUSTOMER_ID best12. ;
format Company $9. ;
format CARD_REG_DATE datetime. ;
format CARD_ACTIVE $1. ;
format FIRST_USE_DTE datetime. ;
format firstSTOR best12. ;
format TITLE $4. ;
format GENDER $6. ;
format max_spent best12. ;
format DOB ddmmyy10. ;
format FTD datetime. ;
format Age best12. ;
format STATE_CODE $3. ;
format POST_CODE best12. ;
format CUST_STAT $6. ;
format Avgsize_spent best12. ;
format CARD_STAT $10. ;
format RGSTN_TYPE_IND $6. ;
format NO_OF_TRIPS best12. ;
format TOWN $14. ;
format EMAIL_IND $1. ;
format CONTACT_PREF $5. ;
format Average_Qty_PER_ACC best12. ;
format Spent_amount best12. ;
```

```sas
input
CUSTOMER_ID
Company $
CARD_REG_DATE
CARD_ACTIVE $
FIRST_USE_DTE
firstSTOR
TITLE $
GENDER $
max_spent
DOB
FTD
Age
STATE_CODE $
POST_CODE
CUST_STAT $
Avgsize_spent
CARD_STAT $
RGSTN_TYPE_IND $
NO_OF_TRIPS
TOWN $
EMAIL_IND $
CONTACT_PREF $
Average_Qty_PER_ACC
Spent_amount
;

run;

/* WHAT IS THE SEQUENCE OF STATEMENTS IN SAS PROGRAMM */

/* 1. DATA STATEMENT */
/* 2. INFILE STATEMENT -- OPTIONS LIKE FILEPATH, DSD, LDM, MISSOVER, FIRSTOBS, OBS, LRECL */
/* 3. INFORMAT */
/* 4. FORMAT */
/* 5. INPUT */
/* 6. RUN */

/* FORMATS -  */

/*  1. NUMERIC - BEST32. W10., 10. */
/*  2. DATA - DMMYY10. MMDDYY10.DATE9.ANYDTDTM40. */
/*  3. CHARACTER - CHAR10. $6. */

/* HOW TO CREATE A ROW NUMBER IN SAS */
=========================================
DATA MED_2024_V1;
SET SSN3.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT ROW_NUMBER;
ROW_NUMBER = _N_;
RUN;


PROC PRINT;
RUN;

/* _N_ IS USED TO CREATE A ROW NUMBER */

/* HOW TO SELECT FIRST 100 OBS */

DATA MED_2024_V2;
SET SSN3.MED_2024 (OBS=100);
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT ROW_NUMBER;
ROW_NUMBER = _N_;
RUN;


PROC PRINT;
RUN;

/* HOW TO SELECT RANDOM 100 OBS */

PROC SURVEYSELECT DATA=MED_2024_V1 METHOD=SRS N=100 OUT=MED_SAMPLE;
RUN;

/* SCENARIO-8 */
=========================
DATA SALES;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A7.Trunc_data.txt' TRUNCOVER ;
INPUT SALES_VALUE 10.;
RUN;


PROC PRINT DATA=SALES;
RUN;

/* TRUNCOVER RESTRICTS THE DATA LINE TO READ WHETHER THE LENGHT IS SAME OR NOT */

DATA STU_NAME;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A8.Trunc_data.txt' TRUNCOVER;
INPUT NAME $30.;
RUN;

PROC PRINT DATA=STU_NAME;
RUN;
```

```sas
/* INTERVIEW QUESTION */

/* DIFFERENCE BETWEEN MISSOVER AND TRUNCOVER */

/* SCENARIO-9 */
=================================
DATA STU_DETAILS;
INPUT NAME $ GENDER $ AGE ;
CARDS;
SAILESH MALE 22 PAYAL FEMALE 24 AMAN MALE 23
ANKITA FEMALE 23 SAHID MALE 26 RAKESH MALE 28
DEV MALE 41
;
RUN;

PROC PRINT DATA=STU_DETAILS;
RUN;


DATA STU_DETAILS;
INPUT NAME $ GENDER $ AGE @@;
CARDS;
SAILESH MALE 22 PAYAL FEMALE 24 AMAN MALE 23
ANKITA FEMALE 23 SAHID MALE 26 RAKESH MALE 28
DEV MALE 41
;
RUN;

PROC PRINT DATA=STU_DETAILS;
RUN;

/* @@ IS USED TO READ MULTIPLE OBSERVATION IN THE SAME DATA LINE */

/* USE OF @  */


DATA COUNTRY_SALES;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A12.Location.txt' DLM=' ';
INPUT PROD_ID COUNTRY $ @;
IF LEFT(COUNTRY) = 'USA' THEN
INPUT SALES_DATE : MMDDYY10. SALES_AMOUNT : DOLLAR12.2;
ELSE IF LEFT(COUNTRY) = 'EUR' THEN
INPUT SALES_DATE : DATE9. SALES_AMOUNT : COMMAX8.2;
FORMAT SALES_DATE MMDDYY10.;
RUN;

/* @ WE USE SINGLE TRAILING TO READ DATA CONDITIONALLY */

/* SCENARIO-10 */
===============================================
DATA EMP_ADDRESS;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A13.New_address.txt' DSD DLM=',' MISSOVER;
INPUT LAST_NAME $ FIRST_NAME $;
INPUT ADDRESS $ STATE_CODE $;
INPUT PHONE_NUMBER $;
RUN;

PROC PRINT DATA=EMP_ADDRESS;
RUN ;


DATA EMP_ADDRESS;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A13.New_address.txt' DSD DLM=',' MISSOVER;
INPUT LAST_NAME $ FIRST_NAME $ /
      ADDRESS $ STATE_CODE $ /
      PHONE_NUMBER $ ;
RUN;

PROC PRINT DATA=EMP_ADDRESS;
RUN ;

DATA EMP_ADDRESS;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A13.New_address.txt' DSD DLM=',' MISSOVER;
INPUT #1 LAST_NAME $ FIRST_NAME $
      #2 ADDRESS $ STATE_CODE $
      #3 PHONE_NUMBER $ ;
RUN;

PROC PRINT DATA=EMP_ADDRESS;
RUN ;

/* PDV */
===========================
DATA STAFF;
INFILE '/home/debendra330/BATCH_202404/SESSION_3/A1.RAW_DATA/A14.INFILE DATA/A11.STAFF_PDV.txt';
INPUT LAST_NAME $ 1-20 FIRST_NAME $ 21-30 EMP_CODE $ 31-35 JOBTITLE $ 36-43 DOJ SALARY 54-59;
INFORMAT DOJ MMDDYY8.;
FORMAT DOJ MMDDYY10.;
RUN;

PROC PRINT DATA=STAFF;
RUN;
```

```sas
/* PDV - PROGRAMME DATA VECTOR */

/* IT IS THE SAS BACKEND THAT CREATES DATASETS ONE BY ONE LINE */

/* DURING COMPILATION PHASE IF ANY ERRORS ARE SEEN */
_ERROR_ = 1
/* _N_ = LINE NUMBER WHERE ERROR OCCURED */
```

```sas
/* PDV - PROGRAMME DATA VECTOR */

/* IT IS THE SAS BACKEND THAT CREATES DATASETS ONE BY ONE LINE */

/* DURING COMPILATION PHASE IF ANY ERRORS ARE SEEN */
_ERROR_ = 1
/* _N_ = LINE NUMBER WHERE ERROR OCCURED */
```