**MAIN FRAME**

**Mainframe Definition:**

"A mainframe is a powerful, centralized computer system that processes large volumes of data, supports multiple users, and provides high-performance computing, storage, and input/output operations." It is a high-performance computer designed for large-scale computing, processing vast amounts of data, and supporting critical business applications

**Mainframe Characteristics:**

* High processing power (millions of transactions per second)
* Large storage capacity (terabytes to petabytes)
* High-speed input/output operations (thousands of I/O operations per second)
* Advanced security features (encryption, access control, auditing)
* Reliability and availability (99.99% uptime)
* Scalability (support for thousands of users and applications)

**STEPS FOR CONNECTING A MAIN** FRAME SYSTEM

* Inprimary screentype 3.4 and enter then we wii be in data set area
* Ds name: enter filename
* then we will be entered in to next screen here file is existing
* after that on the command line we have to enter the commands to view,browse…the file

**commands**

b-browse

v-view

e-edit

f3-close a file

res-reset

**Mainframe commands to open a link and run files:**

Opening Links:

1. TSO OPEN - Opens a dataset or file.

Example: TSO OPEN 'DATASET.NAME'

2. ISPF OPEN - Opens a file or dataset in ISPF edit mode.

Example: ISPF OPEN 'DATASET.NAME'

Running Files (JCL):

1. SUBMIT - Submits a JCL job.

Example: SUBMIT 'JOB.NAME'

2. RUN - Runs a JCL job.

Example: RUN 'JOB.NAME'

**Mainframe Navigation Commands**

1. F3 - Exits current screen.

2. F4 - Returns to previous screen.

3. F7 - Scrolls up.

4. F8 - Scrolls down.

**Job Control Language (JCL) Commands**

1. JOB - Defines a job.

2. STEP - Defines a job step.

3. EXEC - Executes a program.

4. DD - Defines a data definition.

**Terminal Interface Program (TSO) Commands**

1. LOGON - Logs onto the Mainframe.

2. LOGOFF - Logs off from the Mainframe.

3. LISTCAT - Lists catalog entries.

4. LISTDS - Lists dataset names.

**Data Management Commands**

1. ALLOC - Allocates a dataset.

2. DELETE - Deletes a dataset.

3. RENAME - Renames a dataset.

4. COPY - Copies a dataset.

**File Management Commands**

1. CREATE - Creates a new file.

2. DELETE - Deletes a file.

3. RENAME - Renames a file.

4. LIST - Lists file contents.

**JCL Utility Commands**

1. IEFBR14 - Executes a utility program.

2. DFSORT - Sorts data.

3. ICETOOL - Performs data manipulation.