**ASSIGNMENT 4**

**z/OS USS Operations :**

**Problem statement: Create directories and files in z/OS USS, adjust permissions, and write a REXX script to list files with their details.**

**Deliverables: USS operation logs and REXX script.**

**Objective**

To perform basic file and directory operations in **z/OS UNIX System Services (USS)** by:

* Creating directories and files.
* Modifying file permissions.
* Writing a **REXX script** to list files with their details.
* Capturing **USS operation logs**.

**Implementation Steps**

**Step 1: Log into USS**

1. **Access z/OS UNIX Shell**
   * Use OMVS from the TSO command line.
   * Or log in via **SSH** if enabled. (use SSH if you are using VS code it will be easy to access and implement)
2. **Verify your current directory**

Command : pwd

This will show the absolute path of your location.

**Step 2: Create Directories and Files**

1. **Create a directory in USS**

Command : mkdir /z/z52080/mydir

Replace z52080 with your **user ID**.

1. **Change to the new directory**

Command : cd /z/z52080/mydir

1. **Create a file inside the directory**

Command : touch myfile.txt

1. **Insert data**

Command : echo "This is a test file" > myfile.txt

**Step 3: Modify File Permissions**

1. **Grant read/write/execute permissions**

Command : chmod 755 myfile.txt

Explanation of 755:

* + **Owner:** Read, Write, Execute (7)
  + **Group:** Read, Execute (5)
  + **Others:** Read, Execute (5)

1. **Check permissions**

Command : ls -l myfile.txt

Example Output:

-rwxr-xr-x 1 Z52080 IPGROUP 20 Mar 6 02:52 myfile.txt

**Step 4: Write the REXX Script**

Create a **REXX script** that lists all files in a directory along with details.

1. **Create the script file**

Command : touch listfiles.rex

1. **Edit the script using ISPF or vi**

Command : vi listfiles.rex

1. **Write the following REXX code:**

*/\* REXX script to list files in a USS directory \*/*

ARG dirname

IF dirname = "" THEN dirname = "/z/z52080/mydir"

SAY "Listing files in: " dirname

"ls -l" dirname

DO WHILE LINES() > 0

    PARSE PULL line

    SAY line

END

EXIT 0

1. **Save and exit the editor** (Esc + :wq in vi).
2. **Grant execute permission**

bash

CopyEdit

chmod +x listfiles.rex

**Step 5: Run and Capture USS Logs**

1. **Run the REXX script**

Command : ./listfiles.rex

1. **Redirect output to a log file**

Command : ./listfiles.rex > uss\_operations.log

1. **Verify the log file**

Command : cat uss\_operations.log

**Deliverables**

1. **USS operation logs (uss\_operations.log)**
   * Contains directory and file listing output.
2. **REXX script (listfiles.rex)**
   * Lists file details in USS.

**Conclusion**

By following these steps, you will successfully perform **USS operations** on **z/OS**, including:

* Creating **directories and files**.
* Modifying **permissions**.
* Using a **REXX script** to list files.
* Capturing **USS operation logs**.