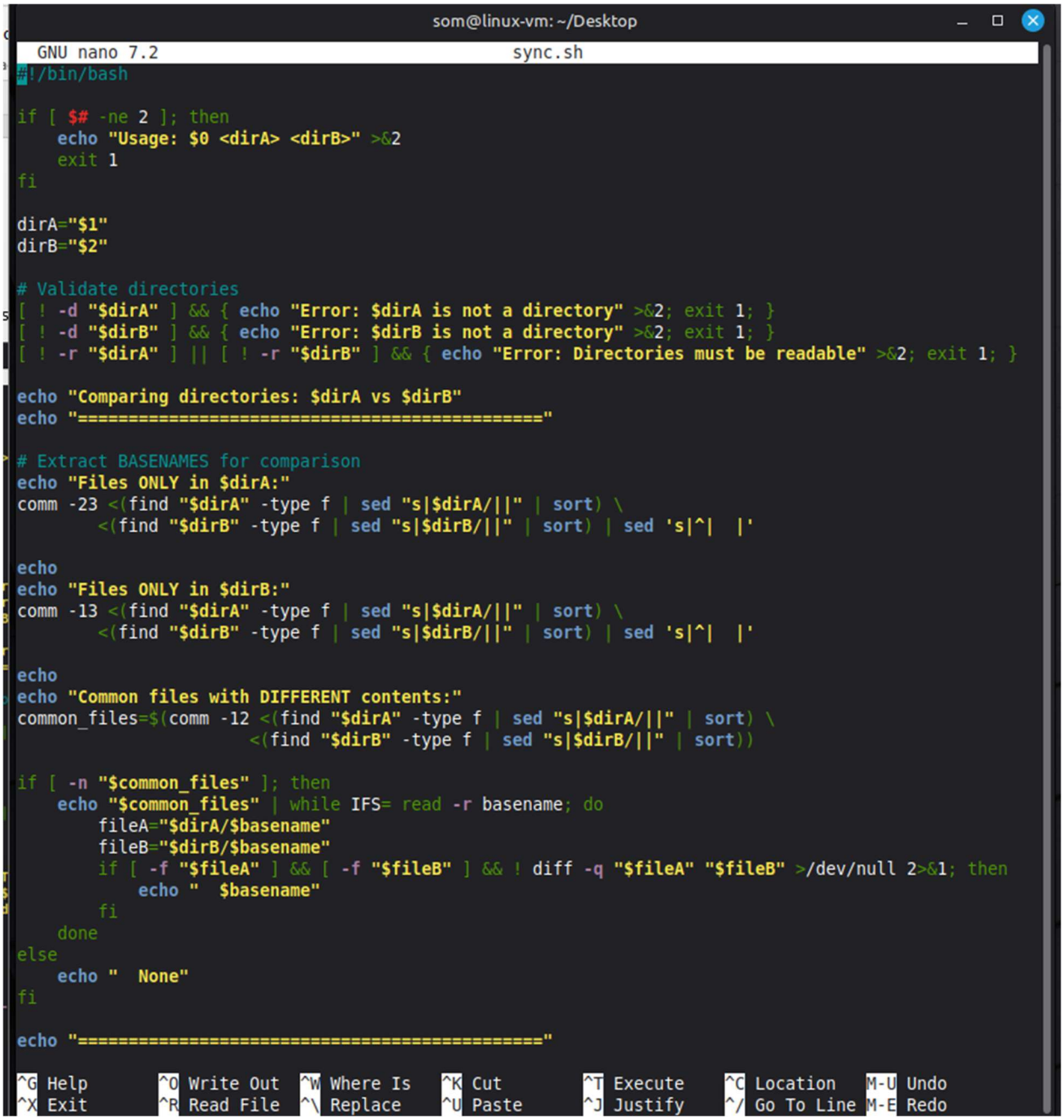
Question 5 (2024eb03003):

Please find screenshot of shell script below and attaching **sync.sh** script to GitHub repository:



Testing the sync.sh Script

Create directories:

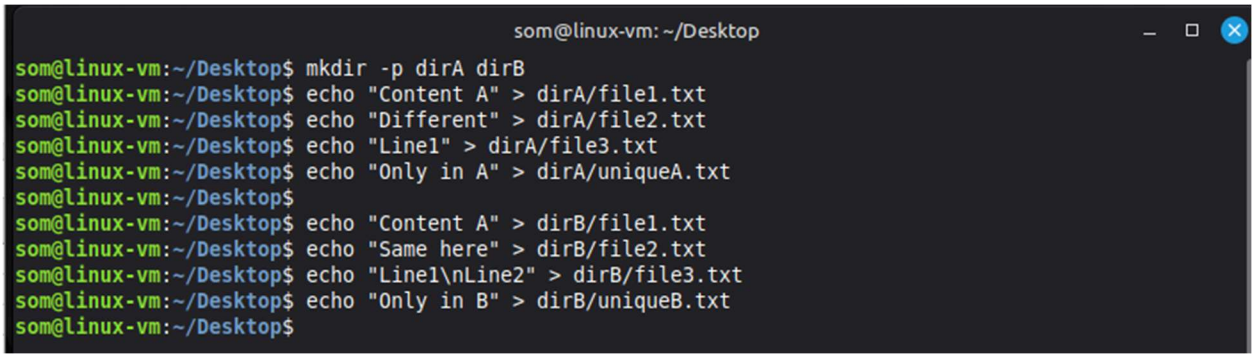
mkdir -p dirA dirB

 # dirA contents

echo "Content A" > dirA/file1.txt
echo "Different" > dirA/file2.txt
echo "Line1" > dirA/file3.txt
echo "Only in A" > dirA/uniqueA.txt

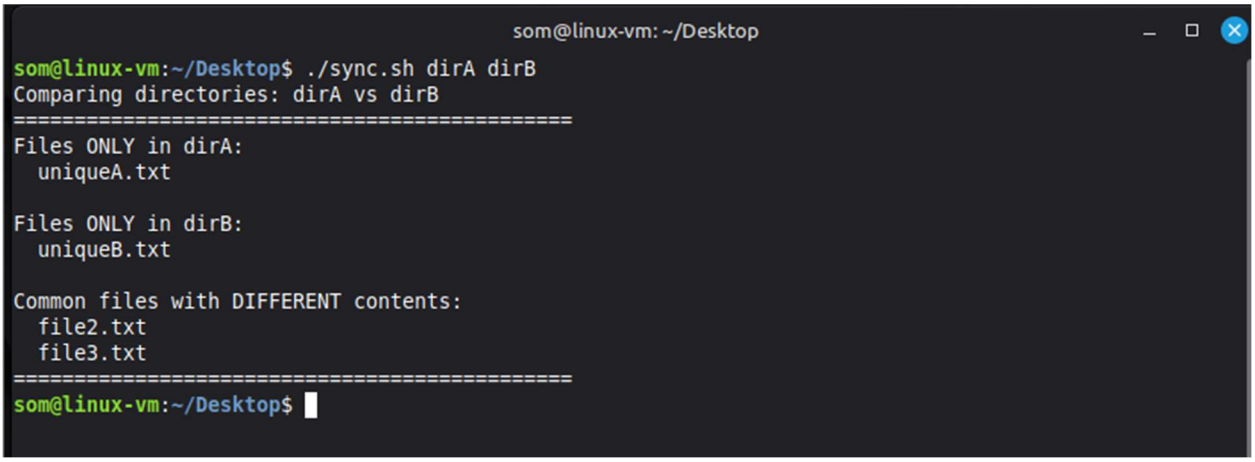
 # dirB contents

echo "Content A" > dirB/file1.txt
echo "Same here" > dirB/file2.txt
echo "Line1\nLine2" > dirB/file3.txt
echo "Only in B" > dirB/uniqueB.txt



Test Case:

./sync.sh dirA dirB



Rquirement validation:

Created test directories dirA and dirB with matching (file1.txt), differing (file2.txt, file3.txt), and unique files (uniqueA.txt, uniqueB.txt), then ran ./sync.sh dirA dirB to verify it correctly listed files only in each directory by basename and identified content differences using diff -q on common files, confirming all three requirements without file modification.

- Lists files by basename only (Req 1, 2)
- Finds common files correctly (Req 3)
- Compares content with diff -q (Req 3)
- No copying/modification (Req 3)