AP22110010051

Basic Shell Script Programs with Outputs

1. Change file names to lowercase

```
#!/bin/sh

for file in "$@"

do

lower=$(echo "$file" | tr 'A-Z' 'a-z')

mv "$file" "$lower"

done

Sample Output:

Input: FILE1.txt FILE2.TXT

Output: file1.txt file2.txt
```

2. Translate all characters to lowercase in a text file

```
#!/bin/sh

if [ -f "$1" ]; then

cat "$1" | tr 'A-Z' 'a-z'

else

echo "File not found"
```

Sample Output:

Input: Text file with content 'HELLO WORLD'

Output: 'hello world'

3. Combine three text files and display word count

```
#!/bin/sh

cat "$1" "$2" "$3" > combined.txt

Sample Output:
```



Input: file1.txt, file2.txt, file3.txt

Output: 150 words

4. Separate even and odd-numbered lines into different files

#!/bin/sh

awk 'NR % 2 == 0' "\$1" > even_file.txt

awk 'NR % 2 == 1' "\$1" > odd_file.txt

Sample Output:

Input: file.txt

Output: even_file.txt with even lines, odd_file.txt with odd lines

5. Delete all even-numbered lines from a text file

#!/bin/sh

awk 'NR % 2 == 1' "\$1" > temp.txt

mv temp.txt "\$1"

Sample Output:

Input: file.txt

Output: file.txt with even lines removed

6. Output username, date, logged-in users, with asterisks

#!/bin/sh

echo "Username: \$(whoami)"

echo "******

echo "Time and Date: \$(date)"

echo "******

echo "Users Logged In:"

who

echo "******

Sample Output:

```
Username: user

********
Time and Date: Tue Oct 09 2024 10:00:00

********
Users Logged In:
user pts/1 2024-10-09 09:50
```

7. Count the number of files in each subdirectory

#!/bin/sh

for dir in */

do

echo "\$dir: \$(Is -I "\$dir" | grep -v '^d' | wc -I) files"

done

Sample Output:

dir1/: 5 files

dir2/: 10 files