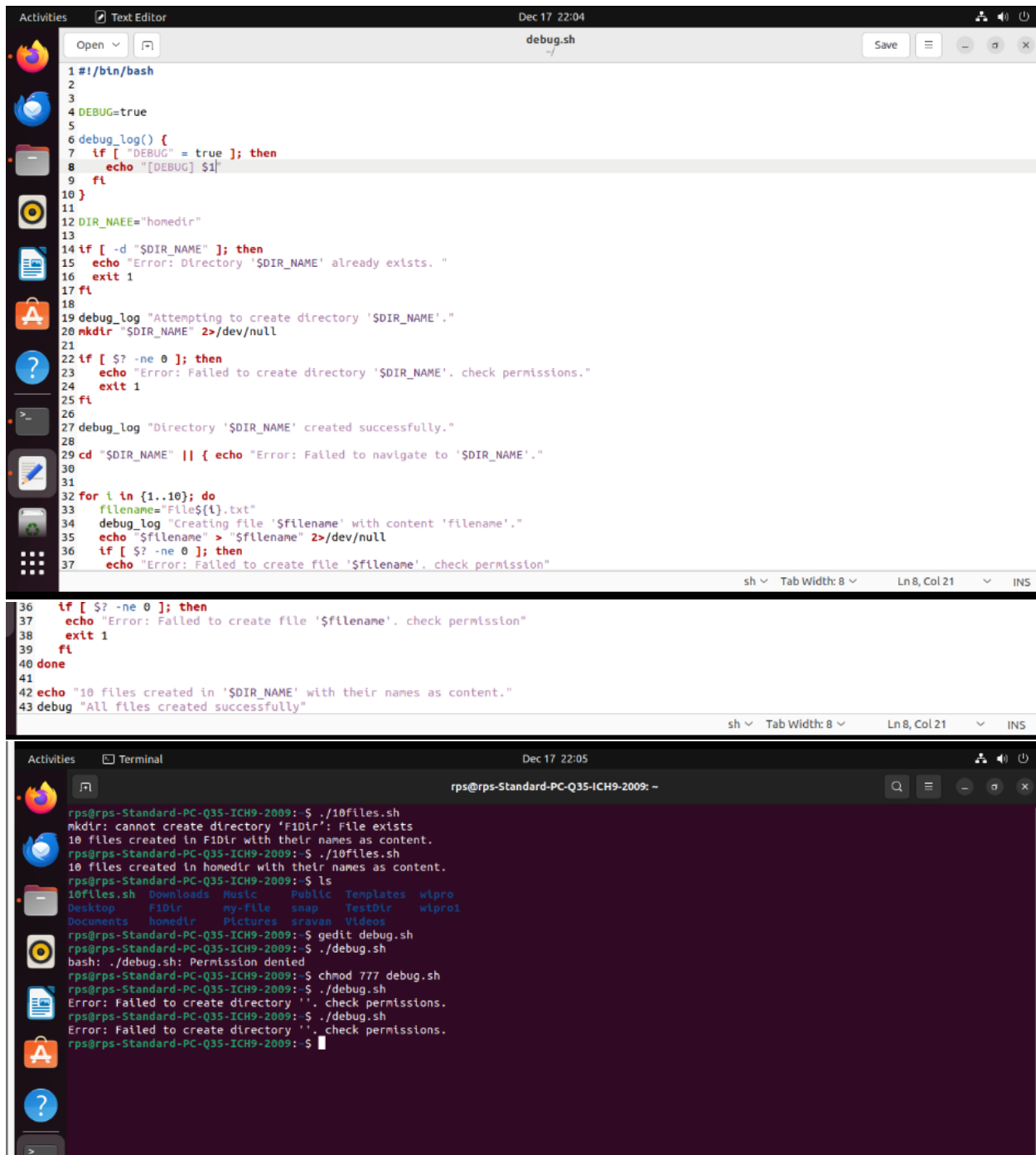


**Assignment 5: Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.**

**Add a debugging mode that prints additional information when enabled**



```
1 #!/bin/bash
2
3
4 DEBUG=true
5
6 debug_log() {
7     if [ "DEBUG" = true ]; then
8         echo "[DEBUG] $1"
9     fi
10 }
11
12 DIR_NAME="homedir"
13
14 if [ -d "$DIR_NAME" ]; then
15     echo "Error: Directory '$DIR_NAME' already exists. "
16     exit 1
17 fi
18
19 debug_log "Attempting to create directory '$DIR_NAME'."
20 mkdir "$DIR_NAME" 2>/dev/null
21
22 if [ $? -ne 0 ]; then
23     echo "Error: Failed to create directory '$DIR_NAME'. check permissions."
24     exit 1
25 fi
26
27 debug_log "Directory '$DIR_NAME' created successfully."
28
29 cd "$DIR_NAME" || { echo "Error: Failed to navigate to '$DIR_NAME'."
30
31
32 for i in {1..10}; do
33     filename="File${i}.txt"
34     debug_log "Creating file '$filename' with content 'filename'."
35     echo "$filename" > "$filename" 2>/dev/null
36     if [ $? -ne 0 ]; then
37         echo "Error: Failed to create file '$filename'. check permission"
38     fi
39 done
40
41
42 echo "10 files created in '$DIR_NAME' with their names as content."
43 debug "All files created successfully"
```

```
rps@rps-Standard-PC-Q35-ICH9-2009: ~/10files.sh
mkdir: cannot create directory 'F1Dir': File exists
10 files created in F1Dir with their names as content.
rps@rps-Standard-PC-Q35-ICH9-2009: ~/10files.sh
10 files created in homedir with their names as content.
rps@rps-Standard-PC-Q35-ICH9-2009: $ ls
10files.sh  Downloads  Music      Public  Templates  wipro
Desktop    F1Dir      my-file   snap    TestDir    wipro1
Documents  homedir    Pictures  sravan  Videos
rps@rps-Standard-PC-Q35-ICH9-2009: $ gedit debug.sh
rps@rps-Standard-PC-Q35-ICH9-2009: $ ./debug.sh
bash: ./debug.sh: Permission denied
rps@rps-Standard-PC-Q35-ICH9-2009: $ chmod 777 debug.sh
rps@rps-Standard-PC-Q35-ICH9-2009: $ ./debug.sh
Error: Failed to create directory '.', check permissions.
rps@rps-Standard-PC-Q35-ICH9-2009: $ ./debug.sh
Error: Failed to create directory '.', check permissions.
rps@rps-Standard-PC-Q35-ICH9-2009: $
```