

**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.**

**Step 1:** Open vi to create the script.

```
HP@Sai MINGW64 /d/Shell scripting
```

```
$ vi Assignment5.sh
```

**Step 2:** Enter insert mode by pressing i and enter the script.

```
directory="TestDir"
```

```
debug=true
```

```
if [[ $debug == true ]]; then
```

```
    echo "Debugging mode enabled"
```

```
    echo "Attempting to create directory: $directory"
```

```
fi
```

```
if mkdir -p "$directory"; then
```

```
    if [[ $debug == true ]]; then
```

```
        echo "Directory $directory created successfully."
```

```
    fi
```

```
for i in {1..10}; do
```

```
    filename="File$i.txt"
```

```
    filepath="$directory/$filename"
```

```
    if [[ $debug == true ]]; then
```

```
        echo "Creating file: $filepath"
```

```
    fi
```

```
    echo "$filename" > "$filepath"
```

```
done

echo "Files created successfully."

else

echo "Failed to create directory. Check permissions."

fi
```

**Step 3:** Press Esc and exit insert mode. Type :wq and press Enter to save and quit.

**Step 4:** Run the Script.

```
HP@Sai MINGW64 /d/Shell scripting
$ bash Assignment5.sh
Debugging mode enabled
Attempting to create directory: TestDir
Directory TestDir created successfully.
Creating file: TestDir/File1.txt
Creating file: TestDir/File2.txt
Creating file: TestDir/File3.txt
Creating file: TestDir/File4.txt
Creating file: TestDir/File5.txt
Creating file: TestDir/File6.txt
Creating file: TestDir/File7.txt
Creating file: TestDir/File8.txt
Creating file: TestDir/File9.txt
Creating file: TestDir/File10.txt
Files created successfully.
```