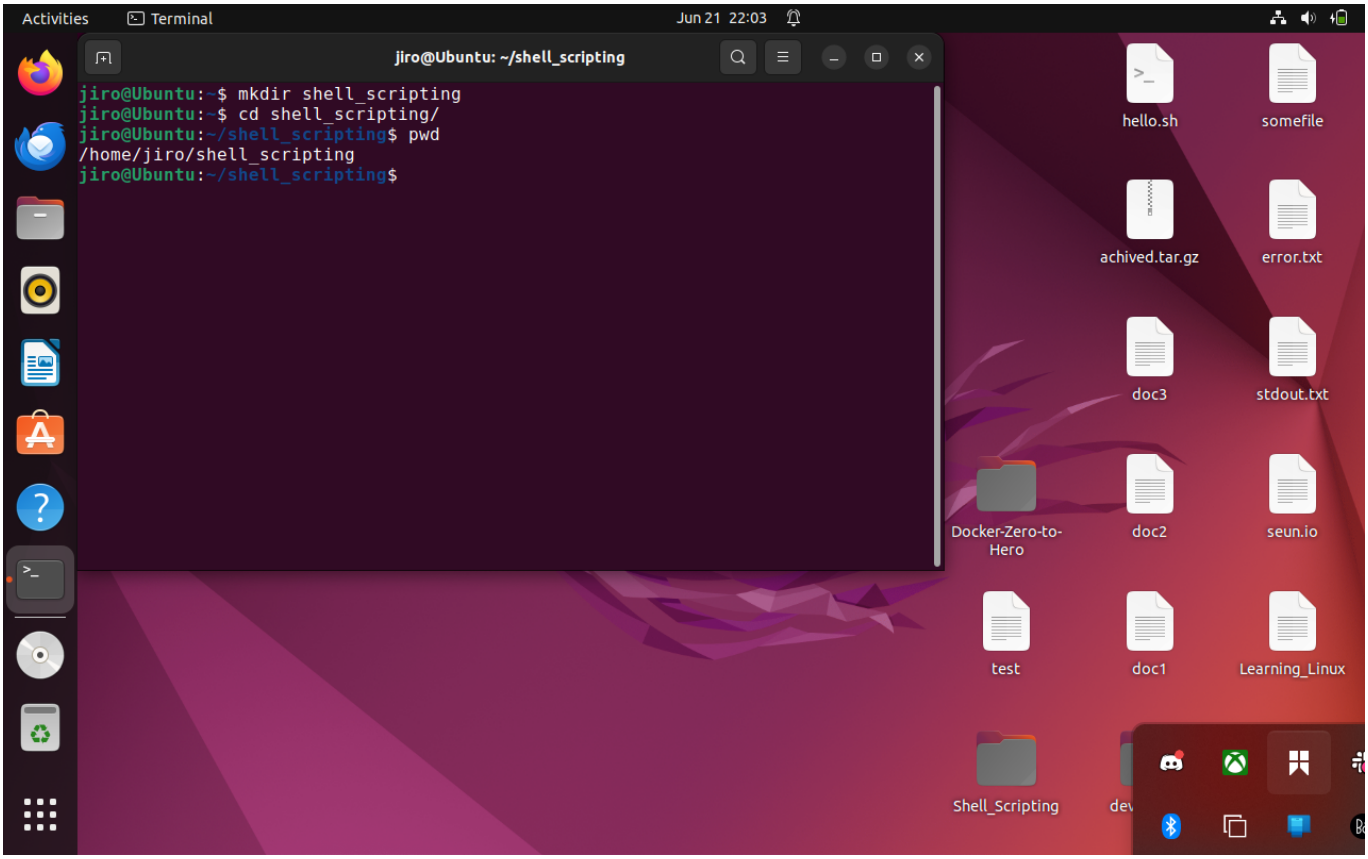
🛠️ Shell Scripting Project: Hands-On Demonstration

🗂️ 1. Create Project Folder

Screenshot:



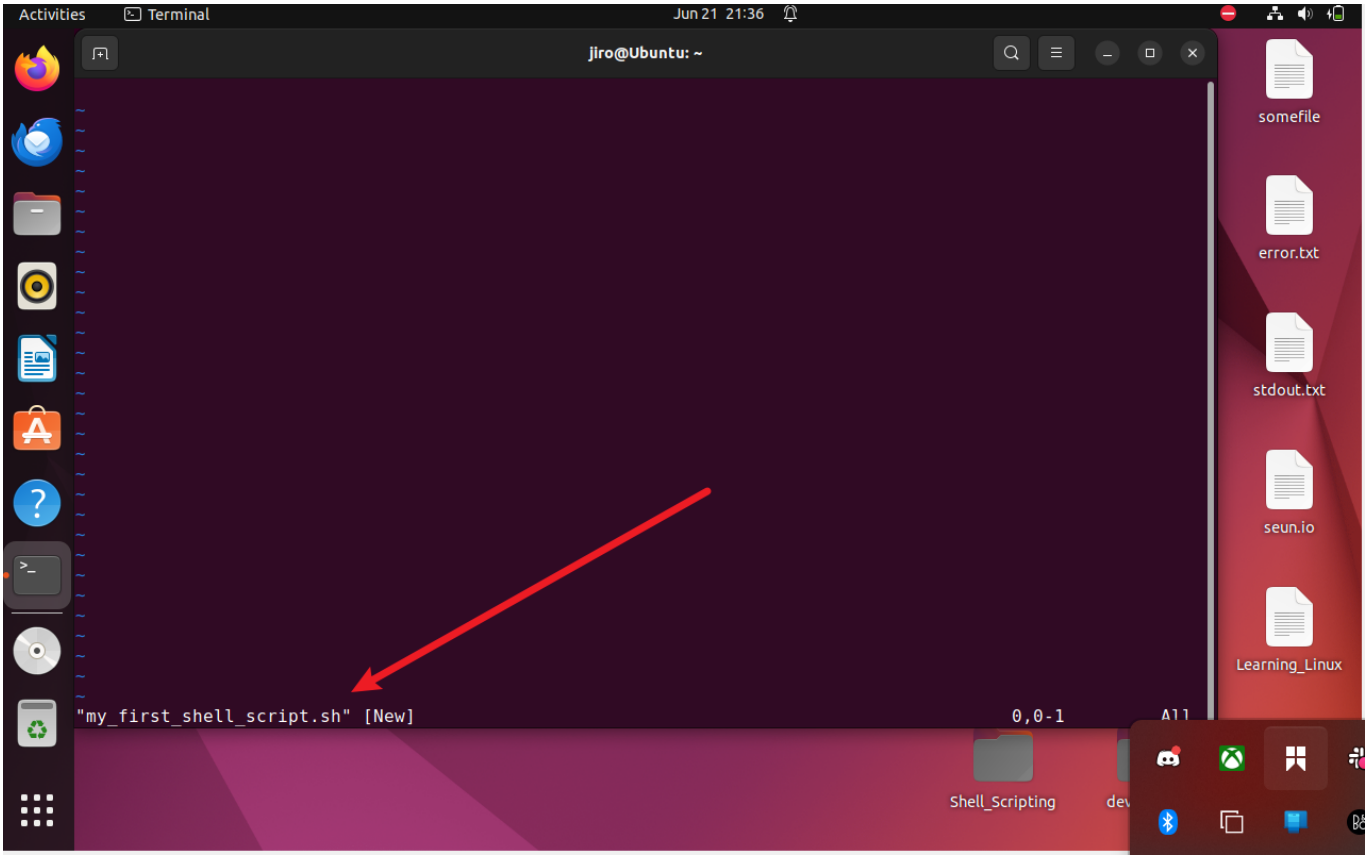
Description:

Created a dedicated directory to organize all shell script files.

```
mkdir shell_scripting
```

📄 2. Create Shell Script File

Screenshot:



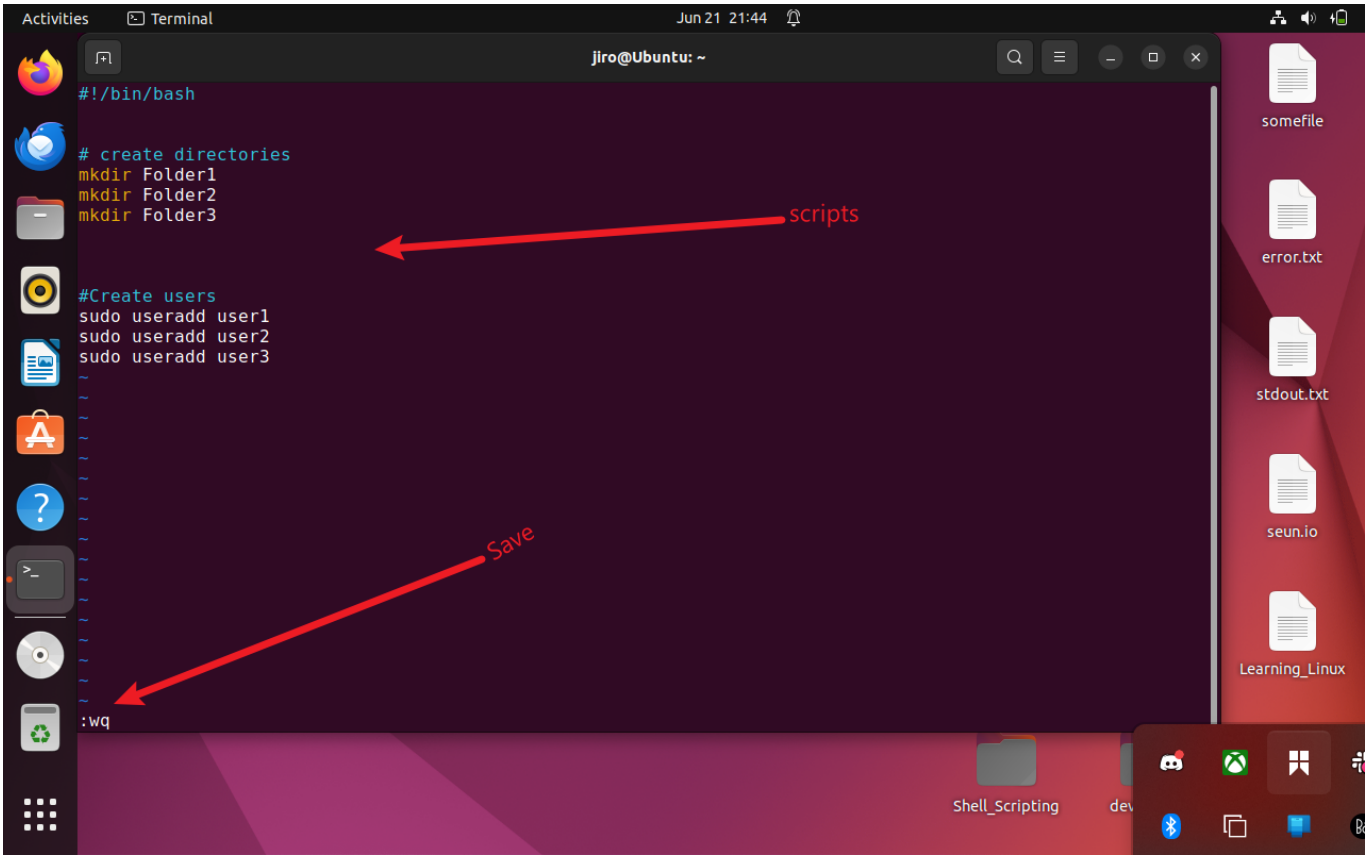
Command:

```
sudo vim my_first_shell_script.sh
```

Navigated into the project directory and created the script file.

✍️ 3. Write Script Content

Screenshot:



Concepts Demonstrated:

- Shebang line
- Variable declaration and initialization
- Creating folders and users via `mkdir` and `useradd`

Script Sample:

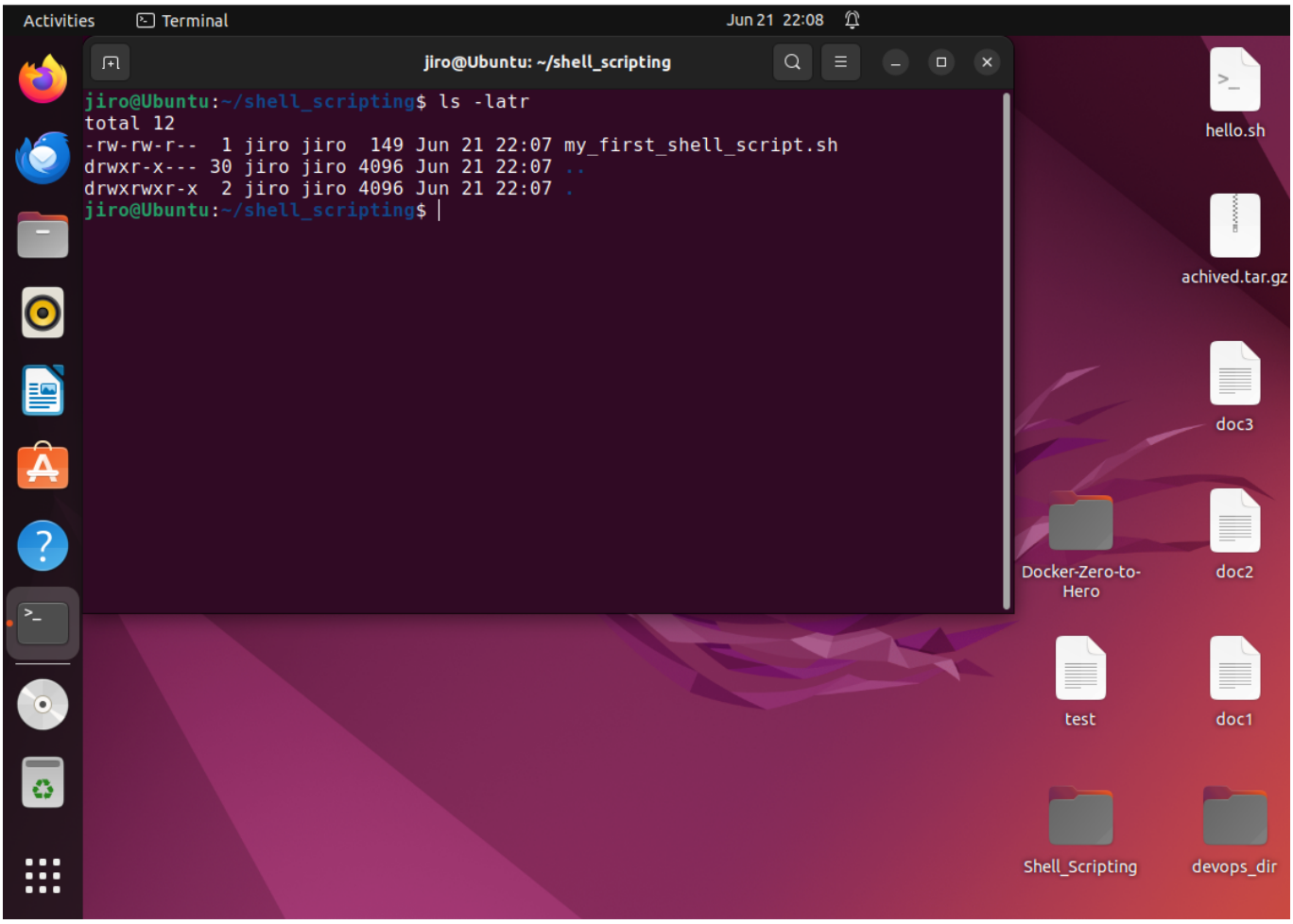
```
#!/bin/bash

#Create directories
mkdir Folder1
mkdir Folder2
mkdir Folder3

#Create users
sudo useradd user1
sudo useradd user2
sudo useradd user3
```

☑ 4. Confirm Folder Creation

Screenshot:

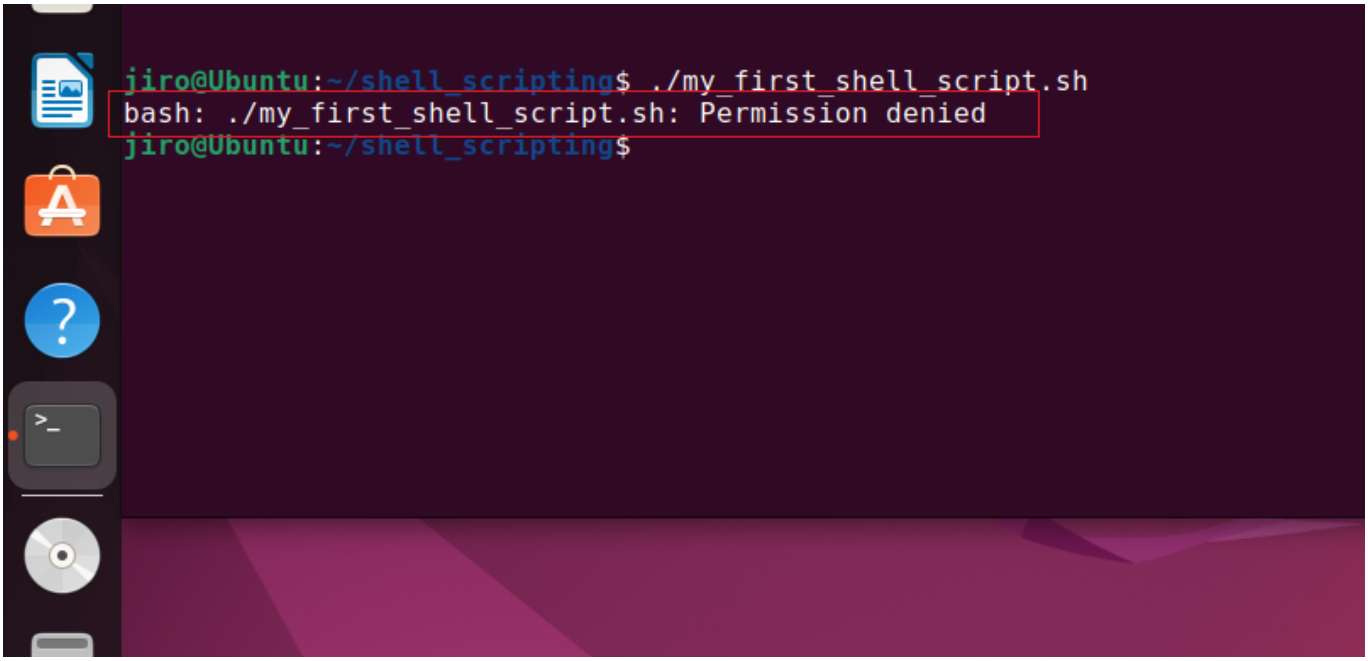


Confirmed that the program file `/home/jiro/shell_scripting/my_first_shell_script.sh` was created successfully.

```
ls -latr /home/jiro/shell_scripting
```

⚠ 5. Initial Execution Denied

Screenshot:



Tried to execute the script without permissions.

```
./my_first_shell_script.sh
# Output: Permission denied
```

🔐 6. Assign Execute Permission

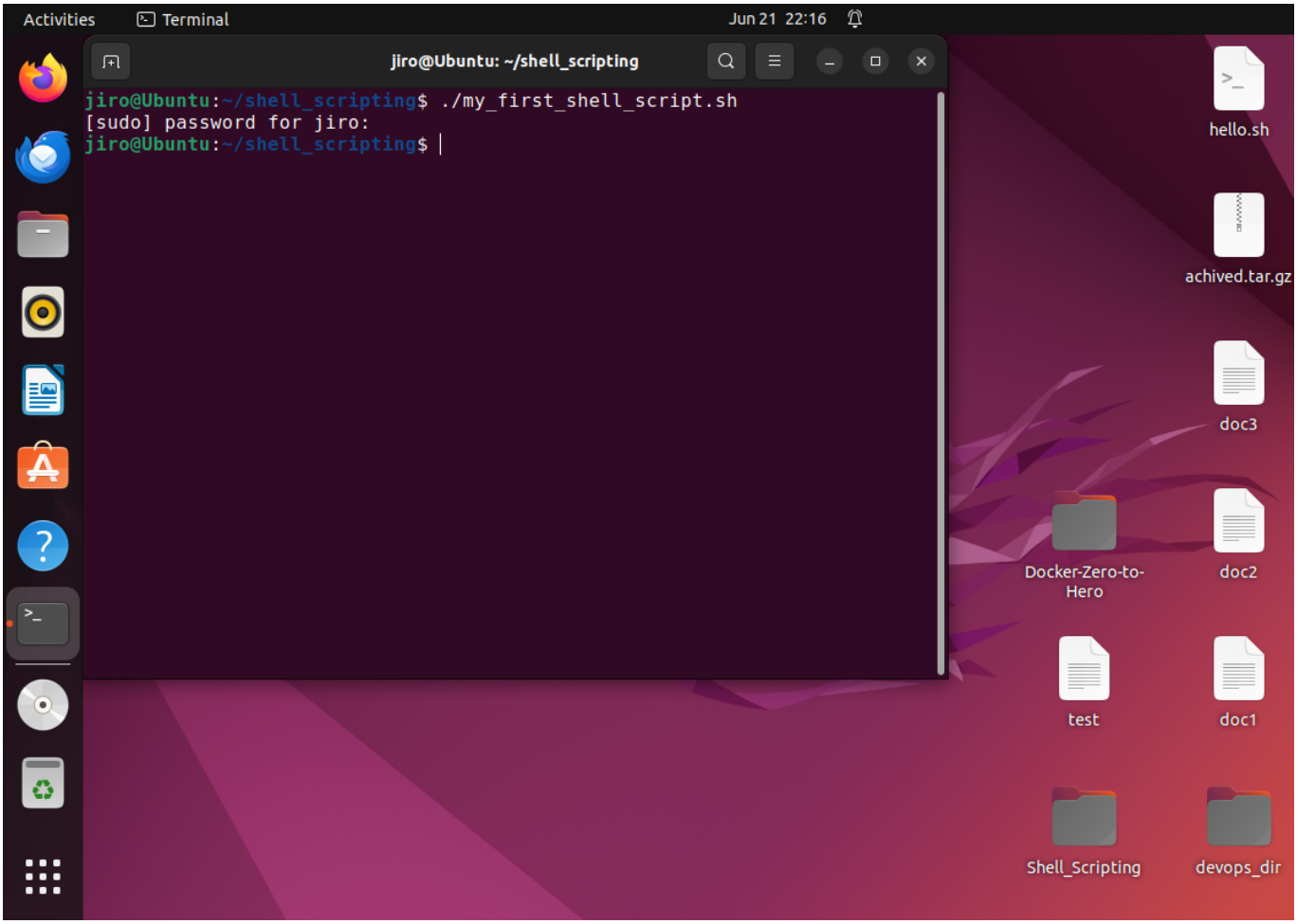
Screenshot: ![Add Permission](img/6.add_execute_permission to file.png)

Added permission to execute the file:

```
chmod +x my_first_shell_script.sh
```

🚀 7. Successfully Ran Script

Screenshot:

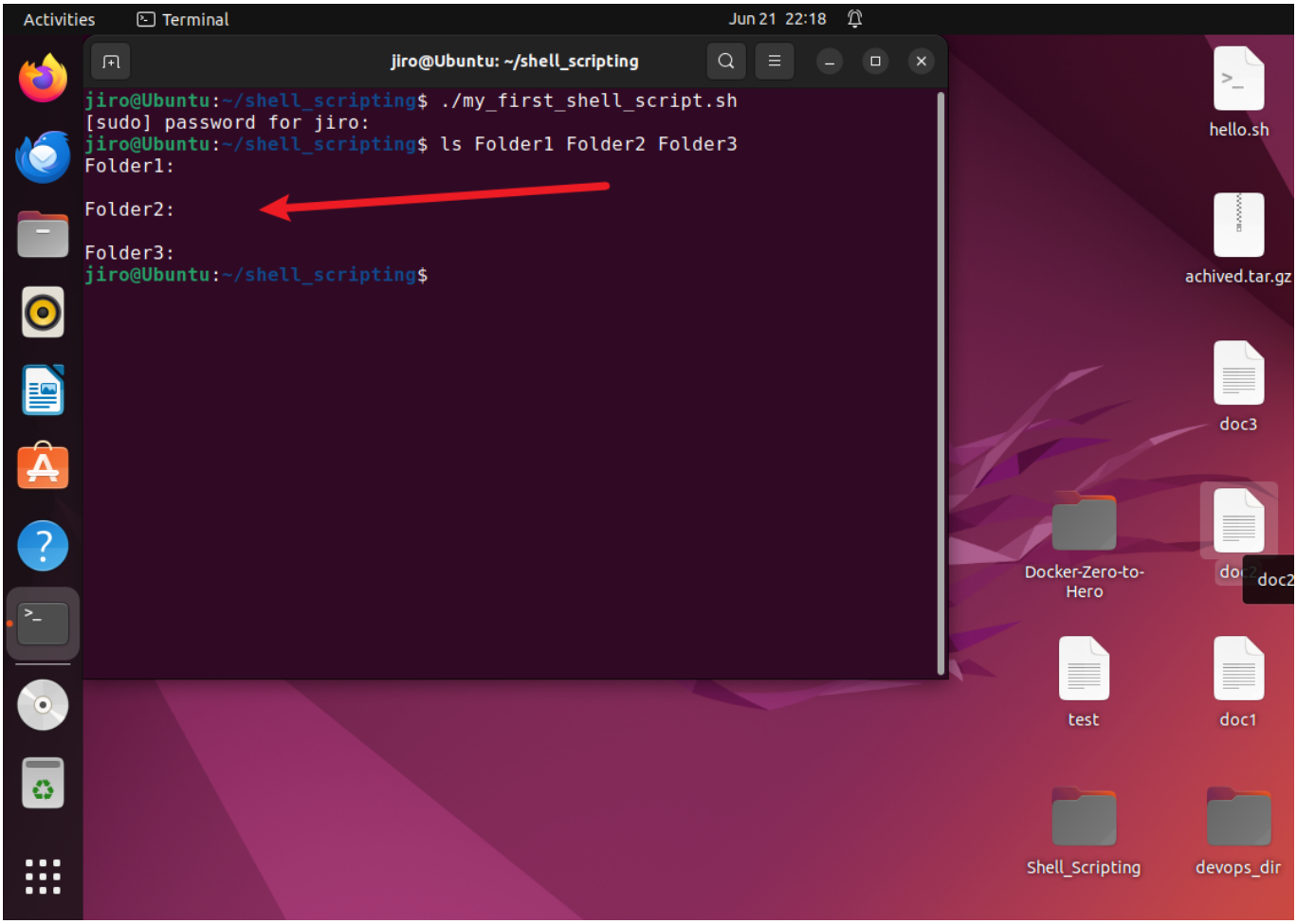


The script executed successfully after permission was granted.

```
./my_first_shell_script.sh
```

🔍 8. Evaluate Folder Creation

Screenshot:

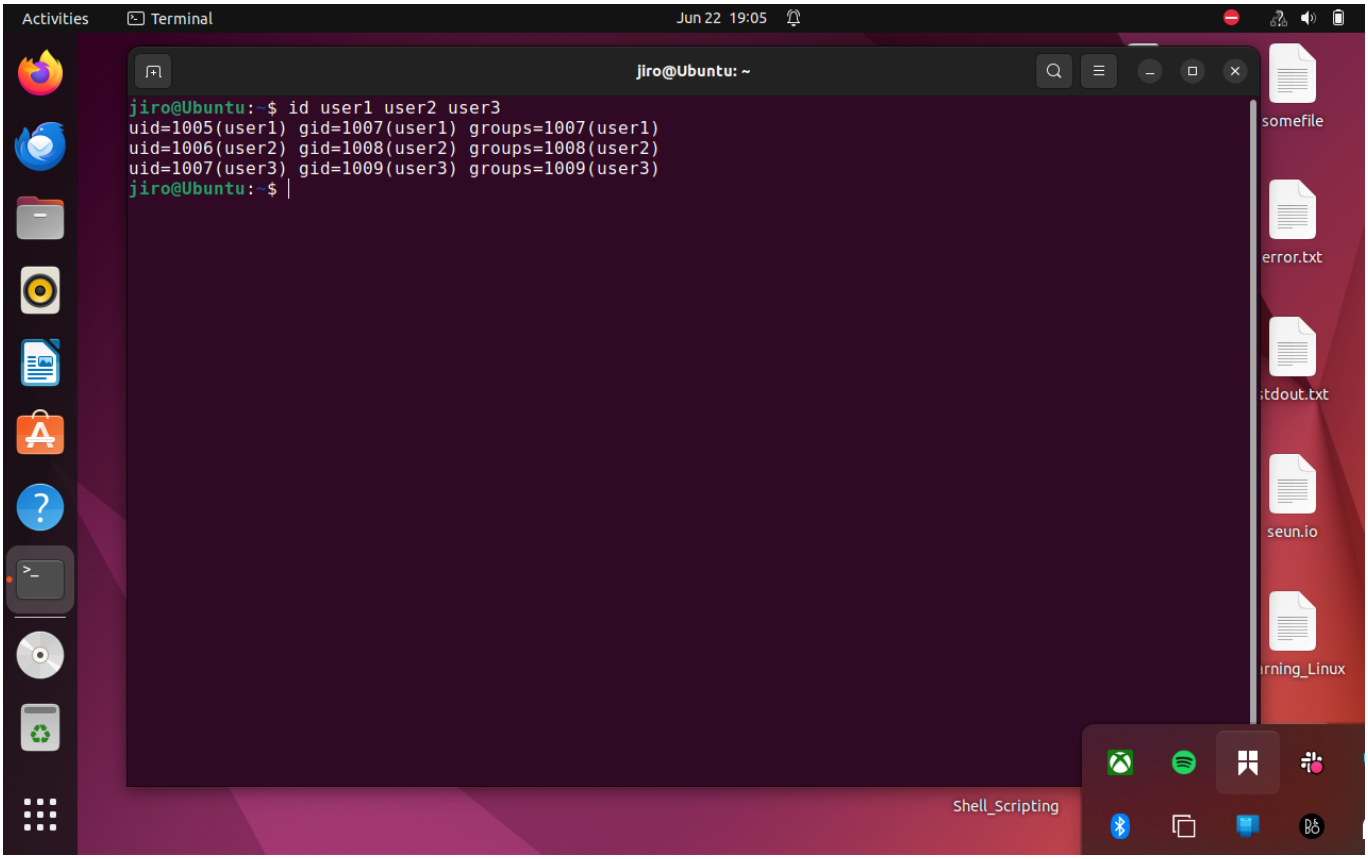


Checked using `ls` or `tree` to ensure the folder was created.

```
ls Folder1 Folder2 Folder3
```

🔍 9. Evaluate User Creation

Screenshot:

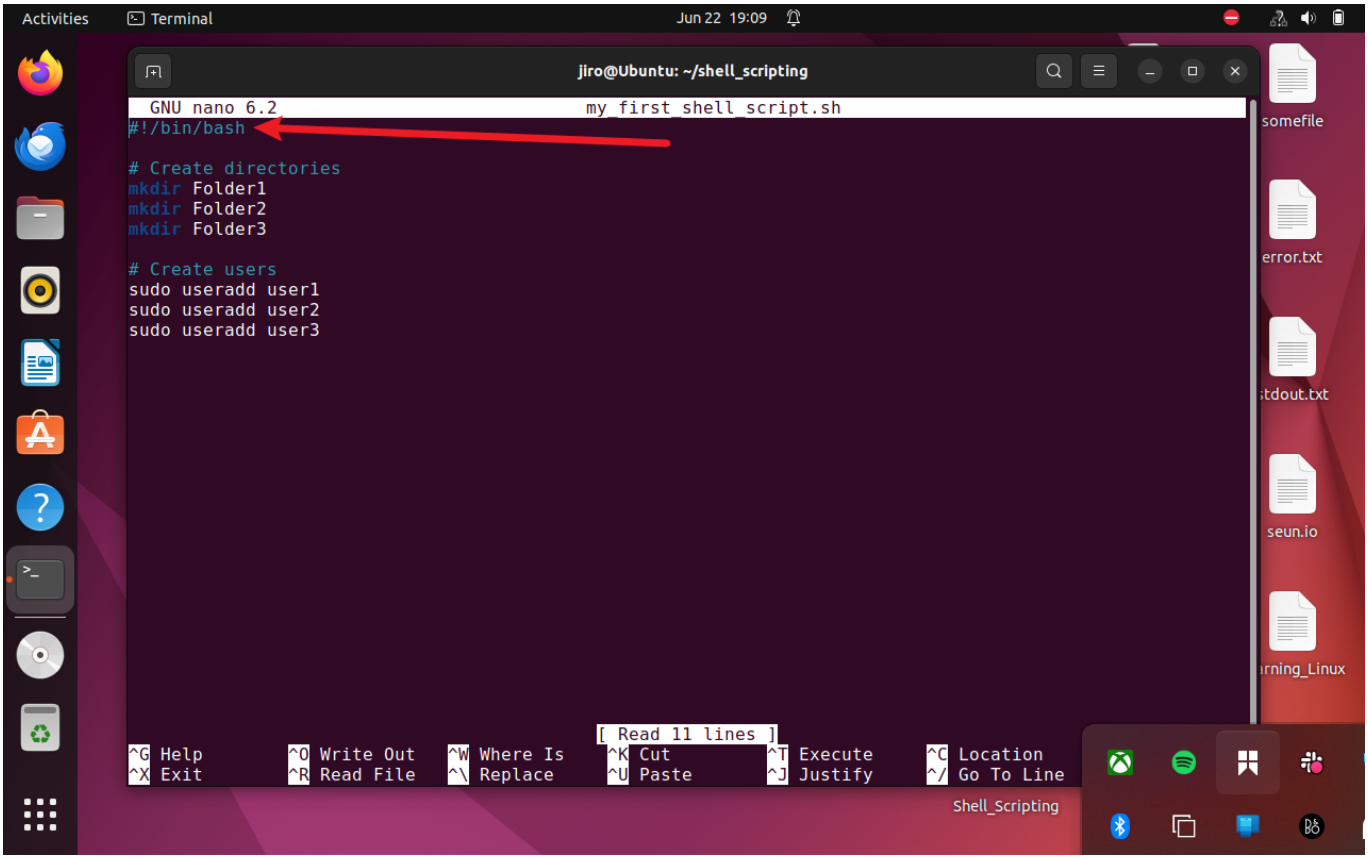


Checked that the user was created using:

```
id user1 user2 user3
```

📌 10. Intro to Shebang

Screenshot:



Described the importance of the shebang (`#!/bin/bash`) for interpreter declaration.

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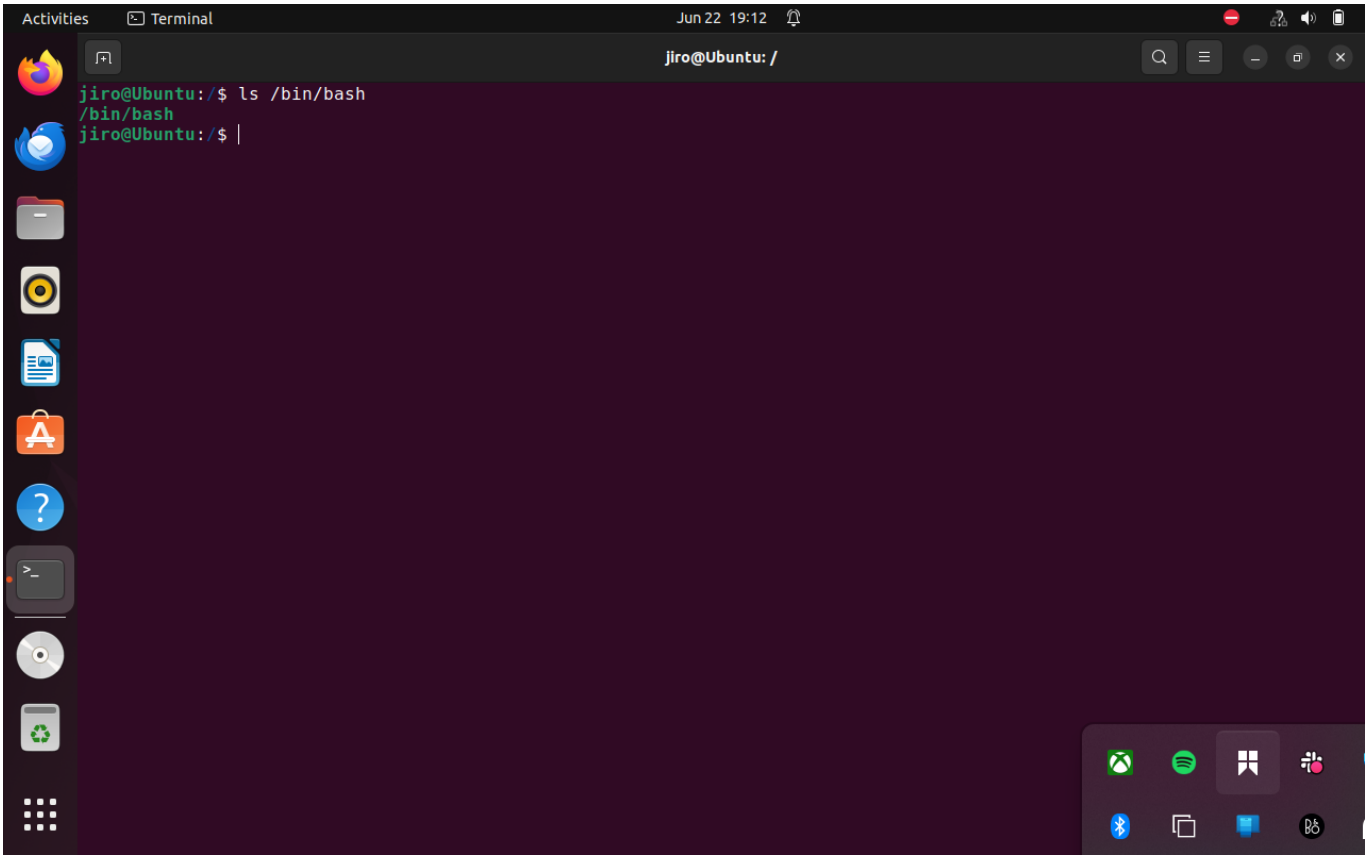
11. `/bin/bash` Exploration

Screenshot:

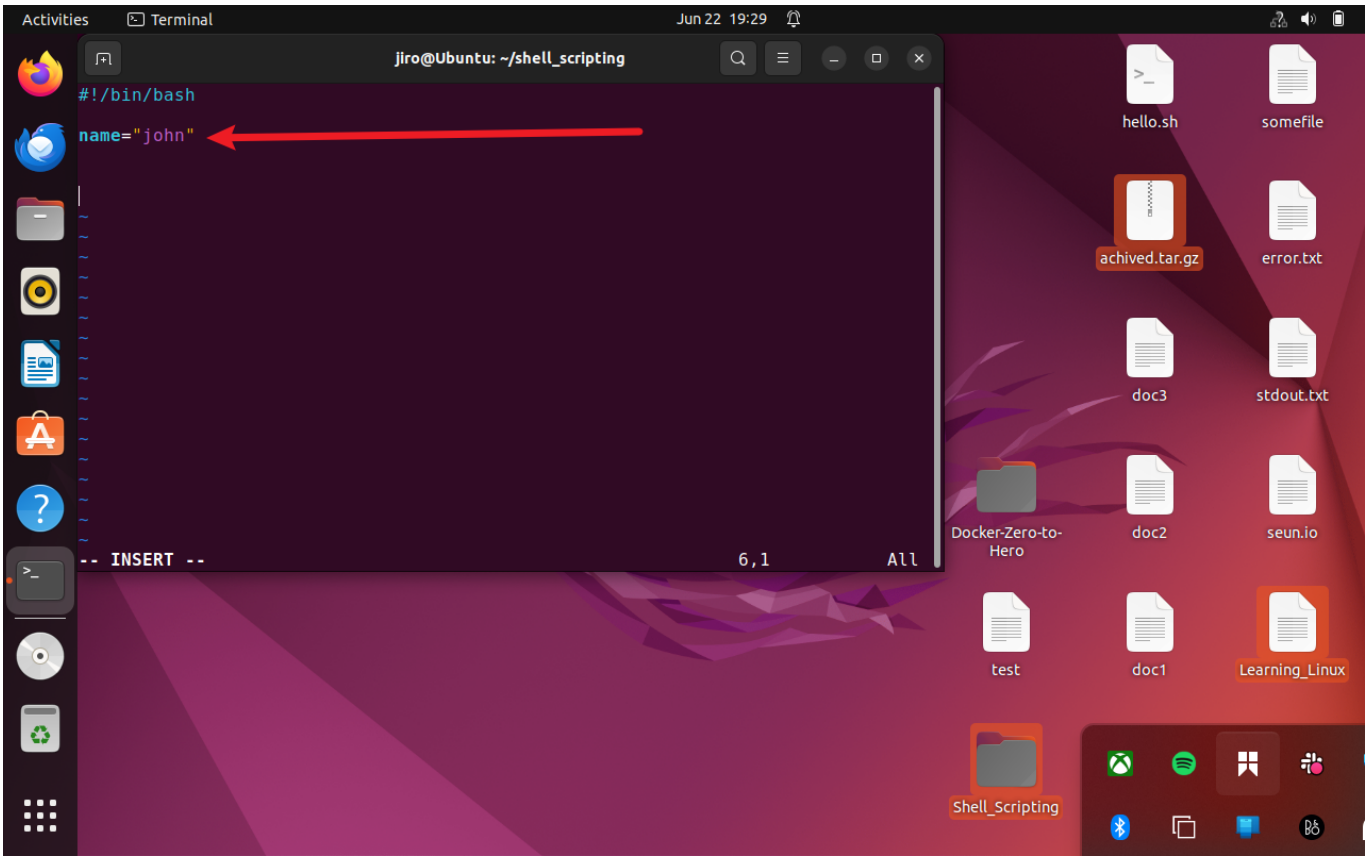


Verified the bash shell path:

```
cd
ls /bin/bash
```

🧮 12. Variable Declaration & Initialization

Screenshot:

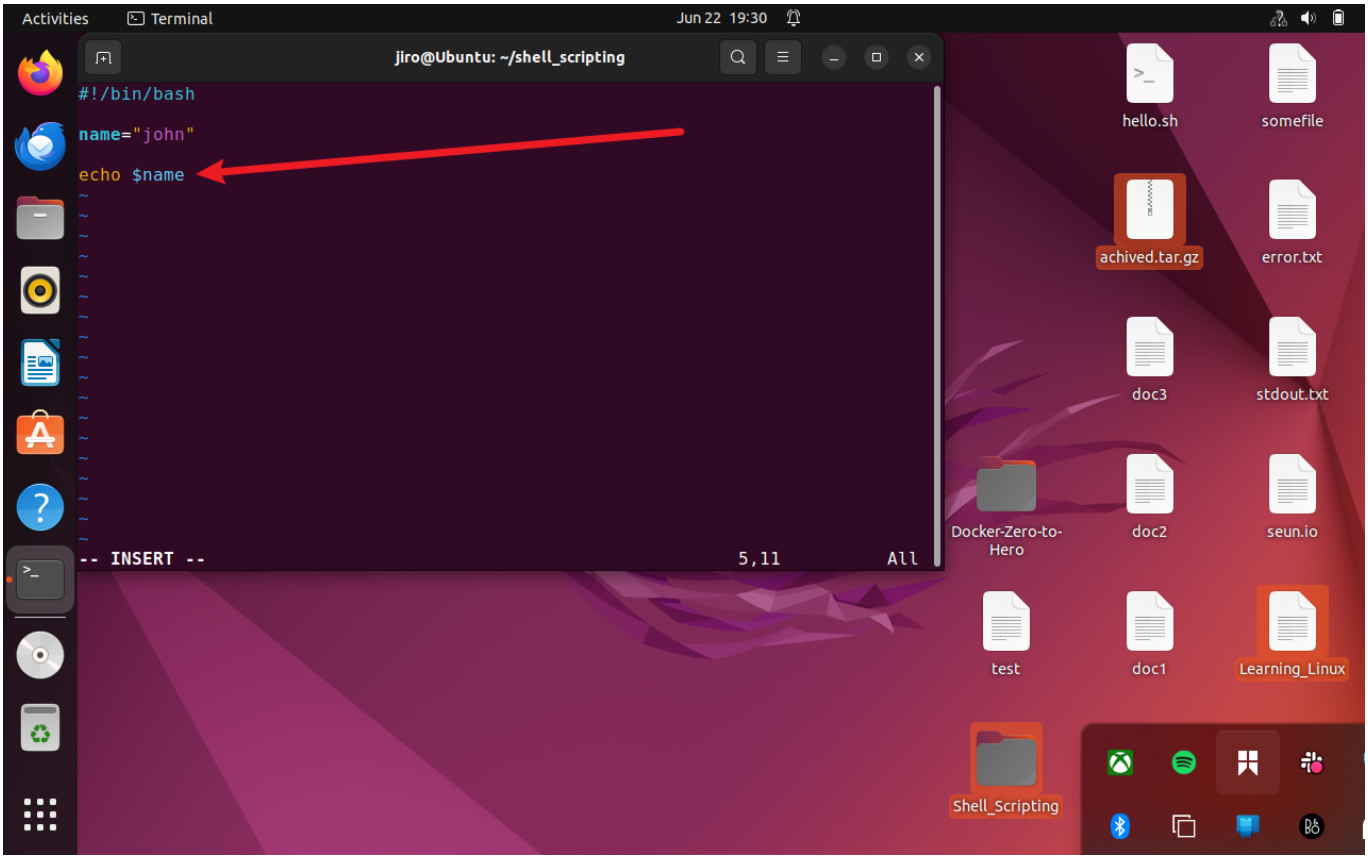


Example:

```
name="john"
```

📞 13. Calling Variables

Screenshot:



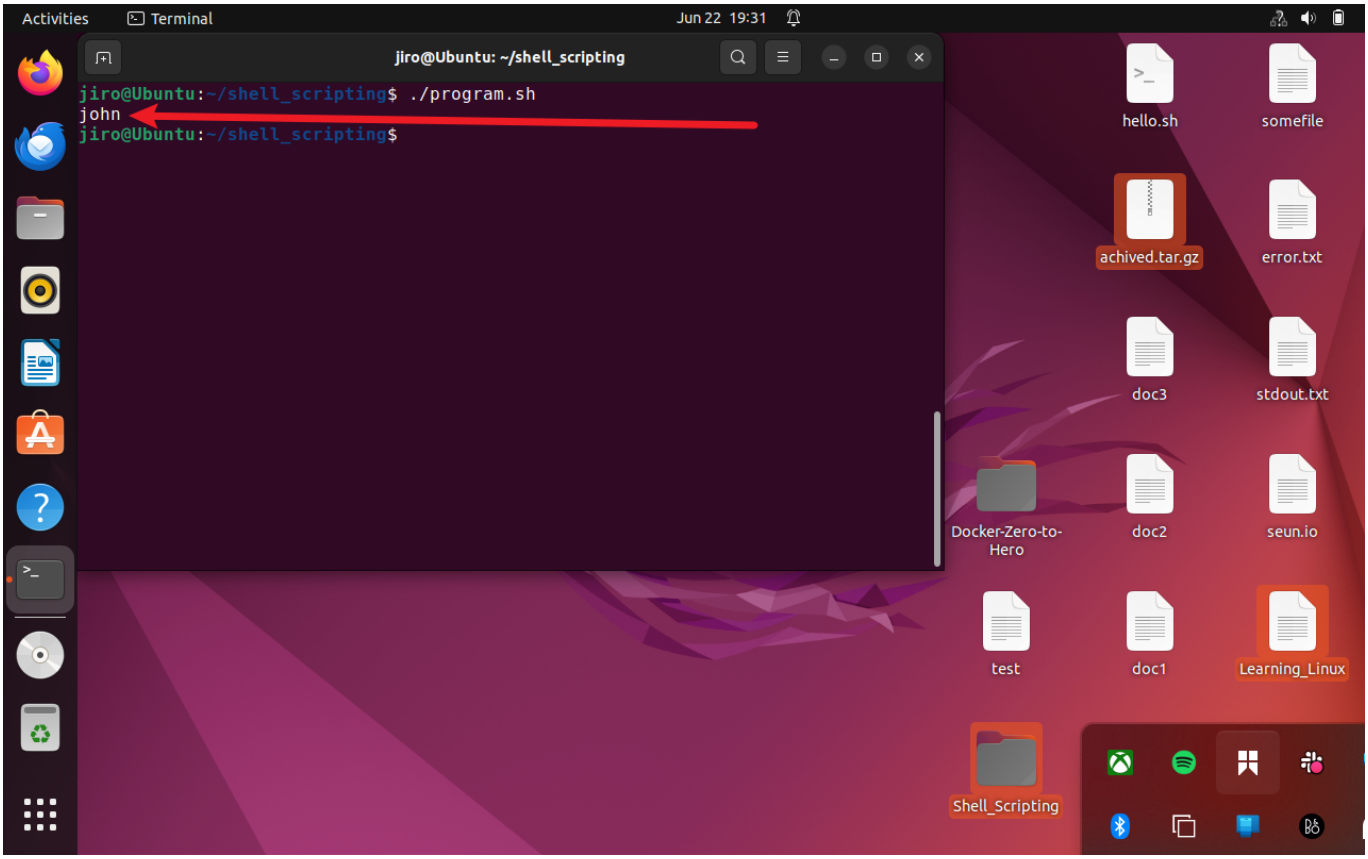
Example usage:

```
echo $name
```

---

14. Output of the Program

Screenshot:

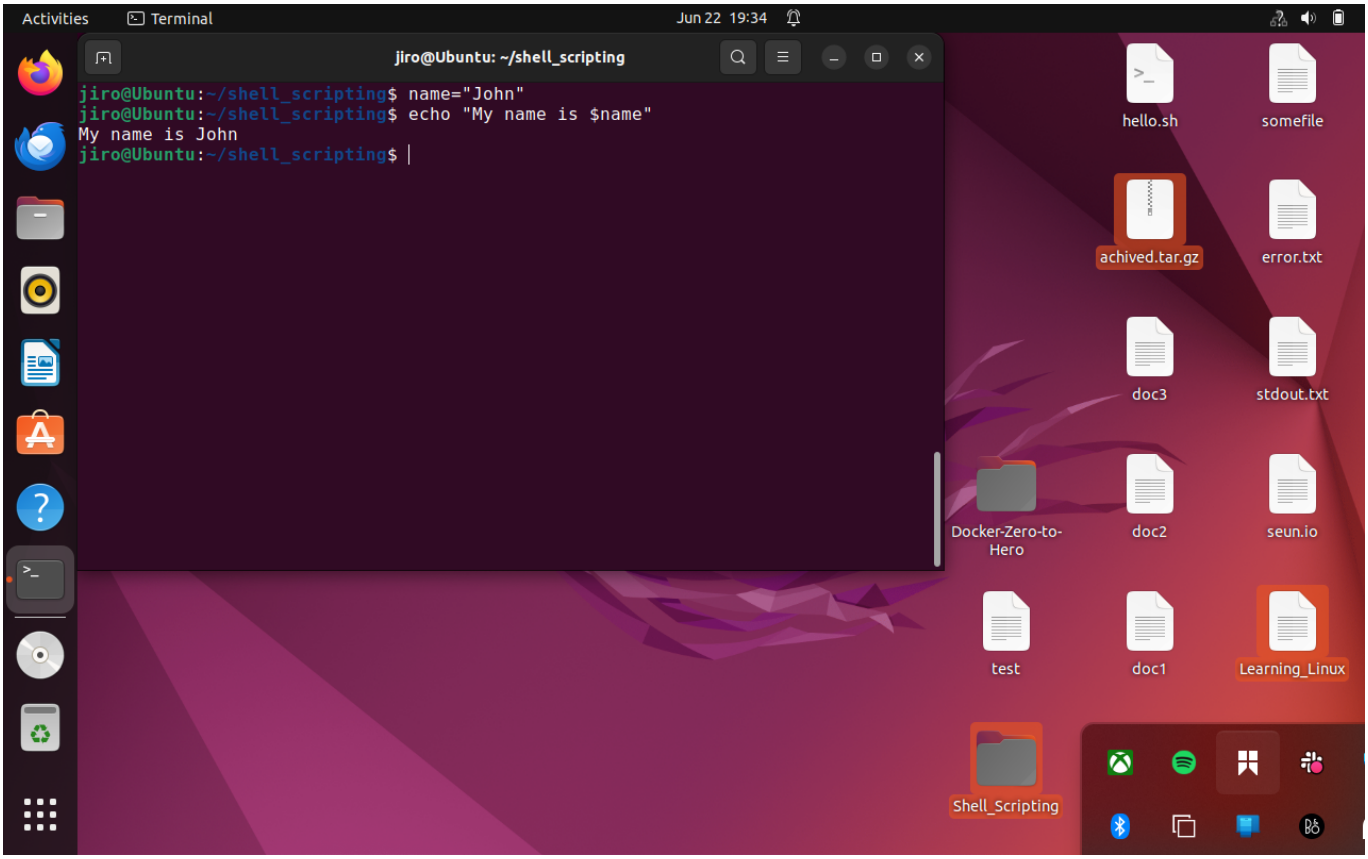


Expected terminal output:

```
john
```

❓ 15. Running Script Without File

Screenshot:



Demonstrated inline script execution directly on terminal:

```
name="john"
echo "My name is $name"
```

Expected terminal output:

```
My name is john
```

📃 Summary of Key Concepts Covered

Concept	Demonstrated
Shebang (`#!`)	☑
Variable declaration and usage	☑
Script file creation	☑
Granting execute permission	☑
Creating users and folders via script	☑
Inline command execution	☑

```
## 🗀 GitHub Repository Validation

🔗 Repository URL: [DevOps Projects GitHub Repo]
(https://github.com/Oluwaseunoa/DevOps-
Projects/tree/main/09.%20Linux%20Shell%20Scripting)
```