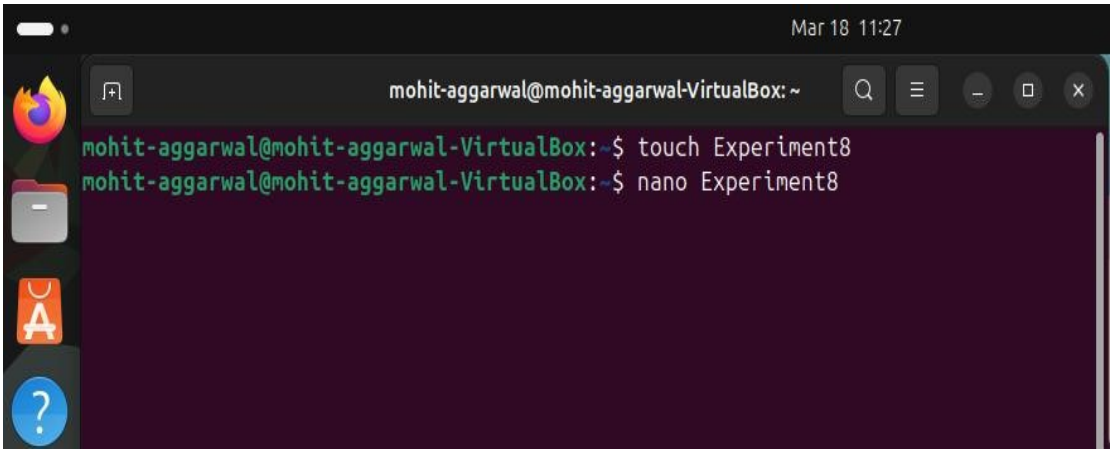
#Steps to Create and Run the Shell Script in Linux

1. Open the terminal.
2. Create a new shell script file.
3. Open the file in a text editor.



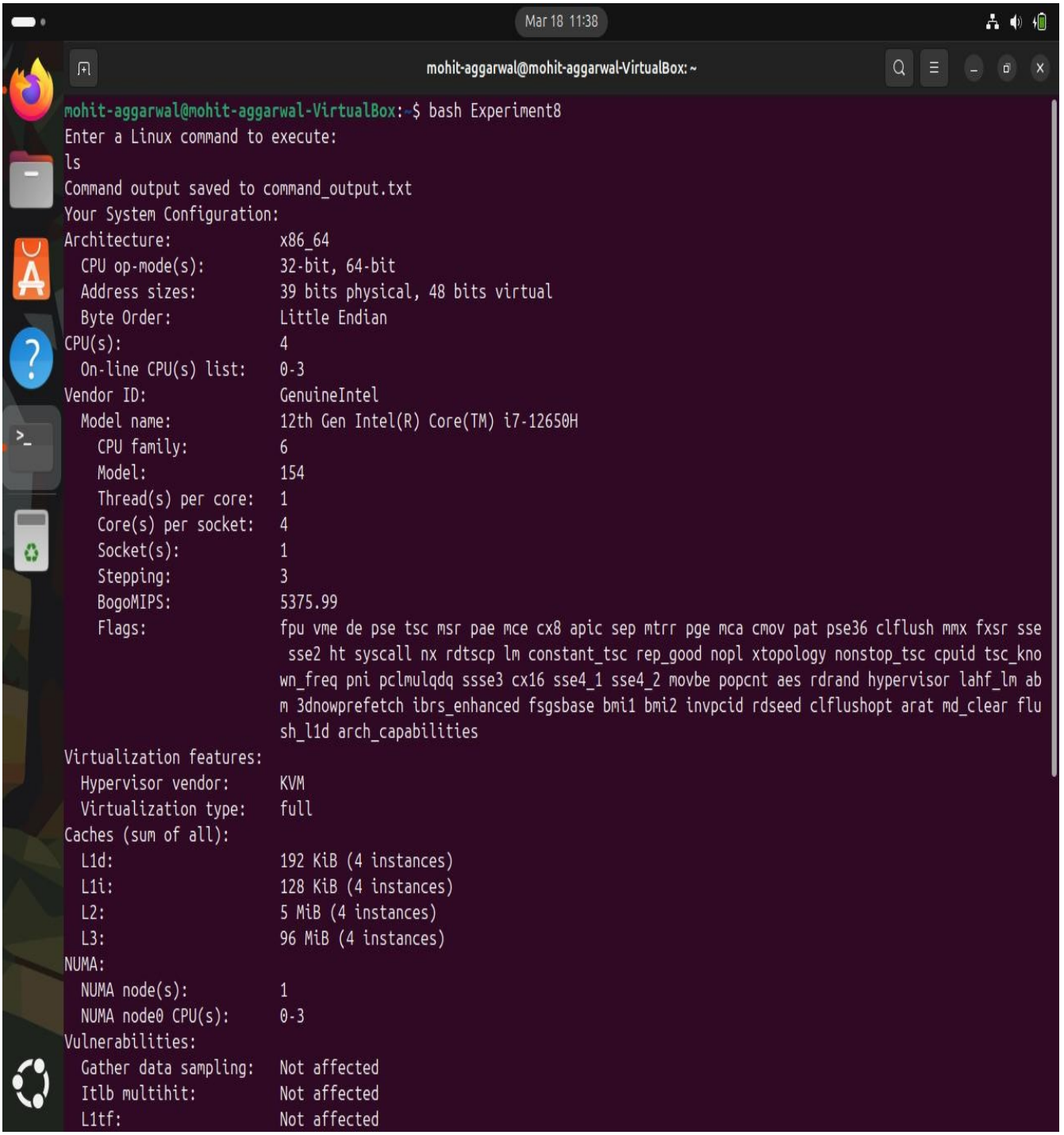
4. Write the script inside the file.

```
#!/bin/bash

# Prompt user to enter a system command
echo "Enter a Linux command to execute:"
read user_command  # Read user input

# Execute the command and store the output in a file
$user_command > command_output.txt
echo "Command output saved to command_output.txt"

# Display the system configuration
echo "Your System Configuration:"
lscpu  # Display CPU information

# Prompt user to enter two numbers for mathematical operations
echo "Enter Two Numbers:"
read Number1
read Number2

# Loop for continuous operation until user exits
while true; do---
    echo "Enter operation (+, -, *, /) or type 'exit' to quit:"
    read char  # Read operation input

    case $char in
        '+') echo "Addition: $((Number1 + Number2))" ;;
        '-') echo "Subtraction: $((Number1 - Number2))" ;;
        '*') echo "Multiplication: $((Number1 * Number2))" ;;
        '/')
            if [ "$Number2" -ne 0 ]; then
                echo "Division: $((Number1 / Number2))"
            else
                echo "Error: Division by zero is not allowed."
            fi----
            ;;
        "exit")
            echo "Exiting..."
            exit 0
            ;;
        *) echo "Invalid input. Please enter a valid operation." ;;
    esac
done
```

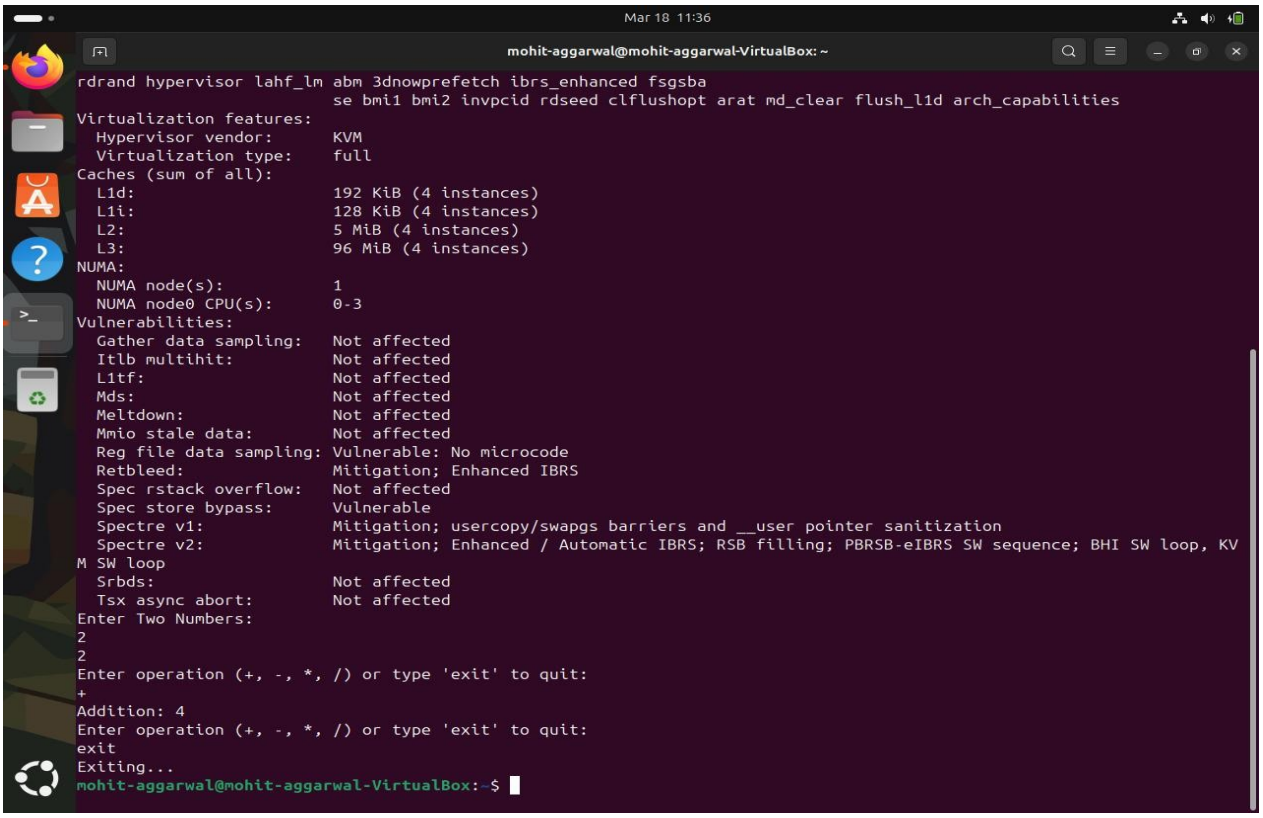
5. Save and exit the editor.

6. Give execution permissions to the script.

7. Run the script.



8. Follow the prompts to enter inputs and perform calculations.



9. Check the stored output in the generated file.