#Steps to Create and Run the Shell Script in Linux

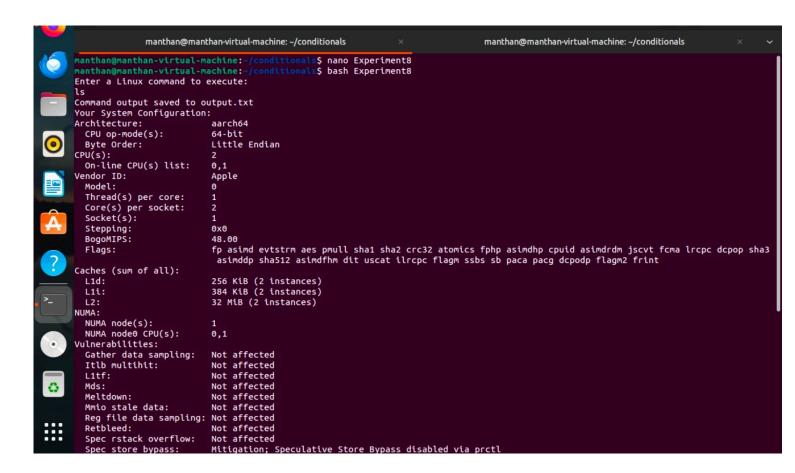
- 1. Open the terminal.
- 2. Create a new shell script file.
- 3. Open the file in a text editor.

```
manthan@manthan-virtual-machine: ~/conditionals × manthan@manthan-virtual-machine: ~/conditionalmanthan@manthan-virtual-machine: ~/conditionals$ nano Experiment8
manthan@manthan-virtual-machine: ~/conditionals$ bash Experiment8
```

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
     # Execute the command and store the output in a file
     $user_command > output.txt
     echo "Command output saved to output.txt"
     # Display the system configuration
     echo "Your System Configuration:"
     # Prompt user to enter two numbers for mathematical operations
     echo "Enter two numbers"
     read number1
18
     read number2
19
     while true; do
     echo "This is a calculator"
     echo "Enter what do you want to do:- +,-,*,/,exit"
24
     read char
25
     case $char in
     '+') echo "Addition is:" $((number1+number2));;
     '-') echo "Subtraction is:" $((number1-number2));;
     '*') echo "Multiplication is:" $((number1*number2));;
     '/') echo "Division is:" $((number1/number2));;
30
     "exit") echo "exiting"
     exit 0
34
     *) echo "Enter a valid input"
     esac
     echo ""
     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.

```
manthan@manthan-virtual-machine: ~/conditionals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               manthan@manthan-virtual-machine: ~/conditionals
                             Caches (sum of all):
                                                                                                                                                                                   256 KiB (2 instances)
384 KiB (2 instances)
32 MiB (2 instances)
                                     L1d:
L1i:
                             NUMA:
                            NUMA node(s):
NUMA node0 CPU(s):
Vulnerabilities:
Gather data sampling:
Itlb multihit:
                                                                                                                                                                                   Not affected
                                                                                                                                                                                  Not affected
Not affected
Not affected
                                       L1tf:
                                       Mds:
                                     Mds: Not affected Meltdown: Not affected Mino stale data: Not affected Reg file data sampling: Not affected Spec rstack overflow: Not affected Spec store bypass: Mitigation; Spectre v1: Mitigation; Spectre v2: Not affected Spec Store Not Affected Mitigation; Spectre v2: Not affected Not affected Spec Store Not Affected Not Affec
                                                                                                                                                                                  Mitigation; Speculative Store Bypass disabled via prctl
Mitigation; _user pointer sanitization
Not affected
                                                                                                                                                                                  Not affected
Not affected
                                       Srbds:
                             Tsx async abort:
Enter two numbers
                            This is a calculator
Enter what do you want to do:- +,-,*,/,exit
                              Addition is: 5
                            This is a calculator
Enter what do you want to do:- +,-,*,/,exit
exit
0
                             exiting
                         manthan@manthan-virtual-machine:~/conditionals$ nano Experiment8 manthan@manthan-virtual-machine:~/conditionals$ nano output.txt manthan@manthan-virtual-machine:~/conditionals$
```

9. Check the stored output in the generated file.

