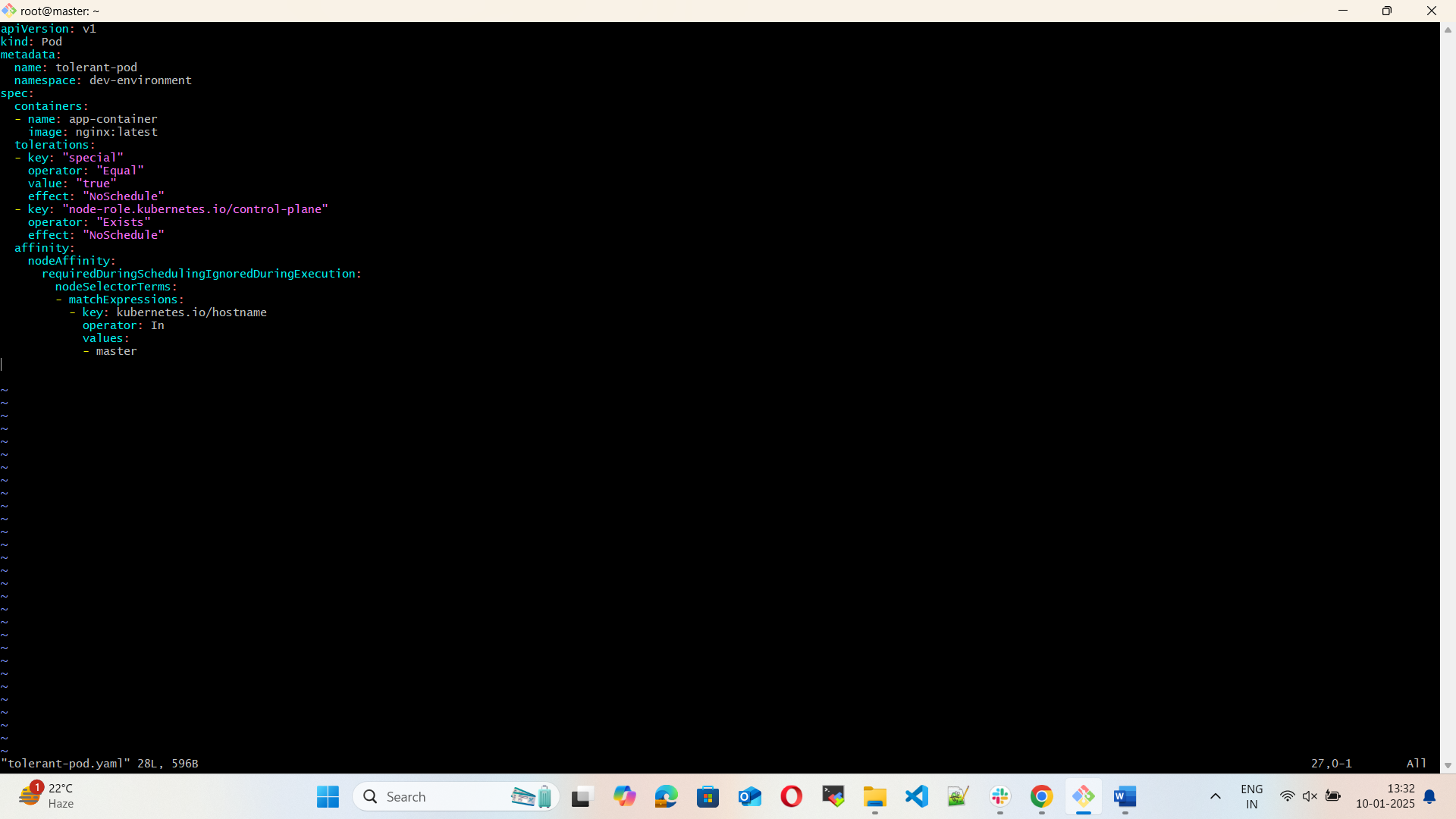
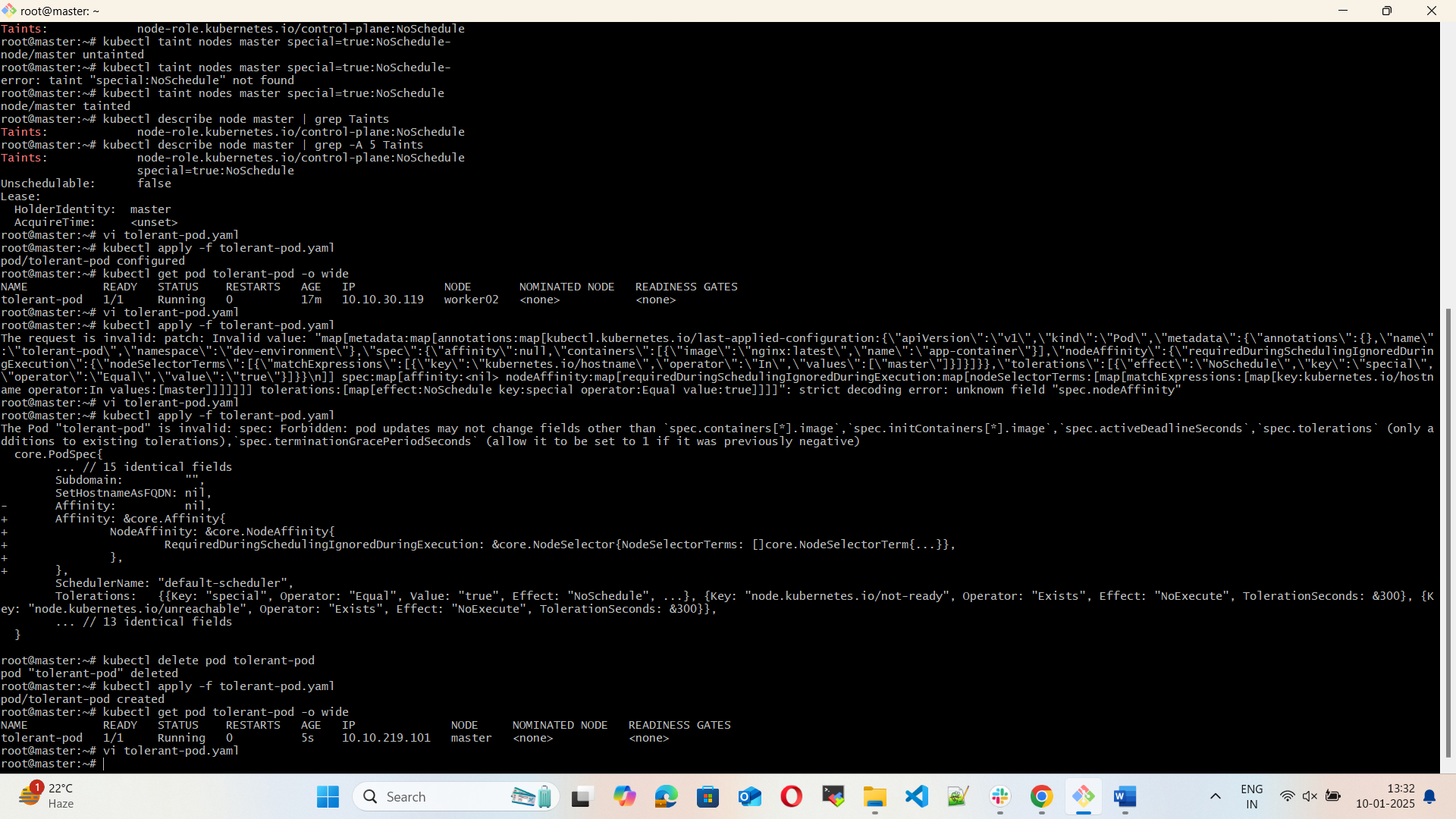
Task 1: Execute all yaml files shown in video.

Task 2: Taint a Node and Schedule a Tolerant Pod

Taint a node with special=true:NoSchedule.

Create a pod with a toleration that matches the taint, allowing it to be scheduled on the tainted node.

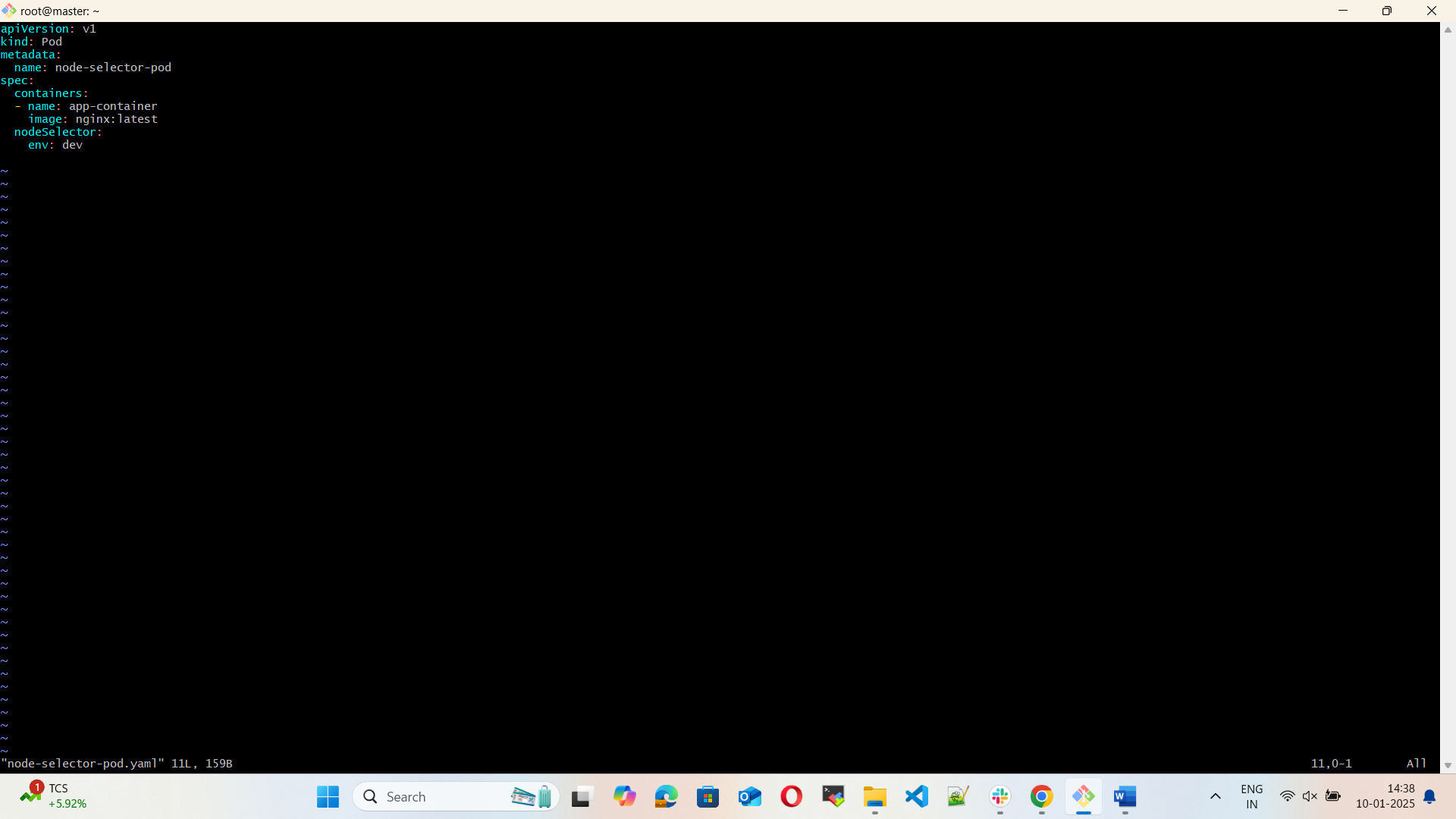


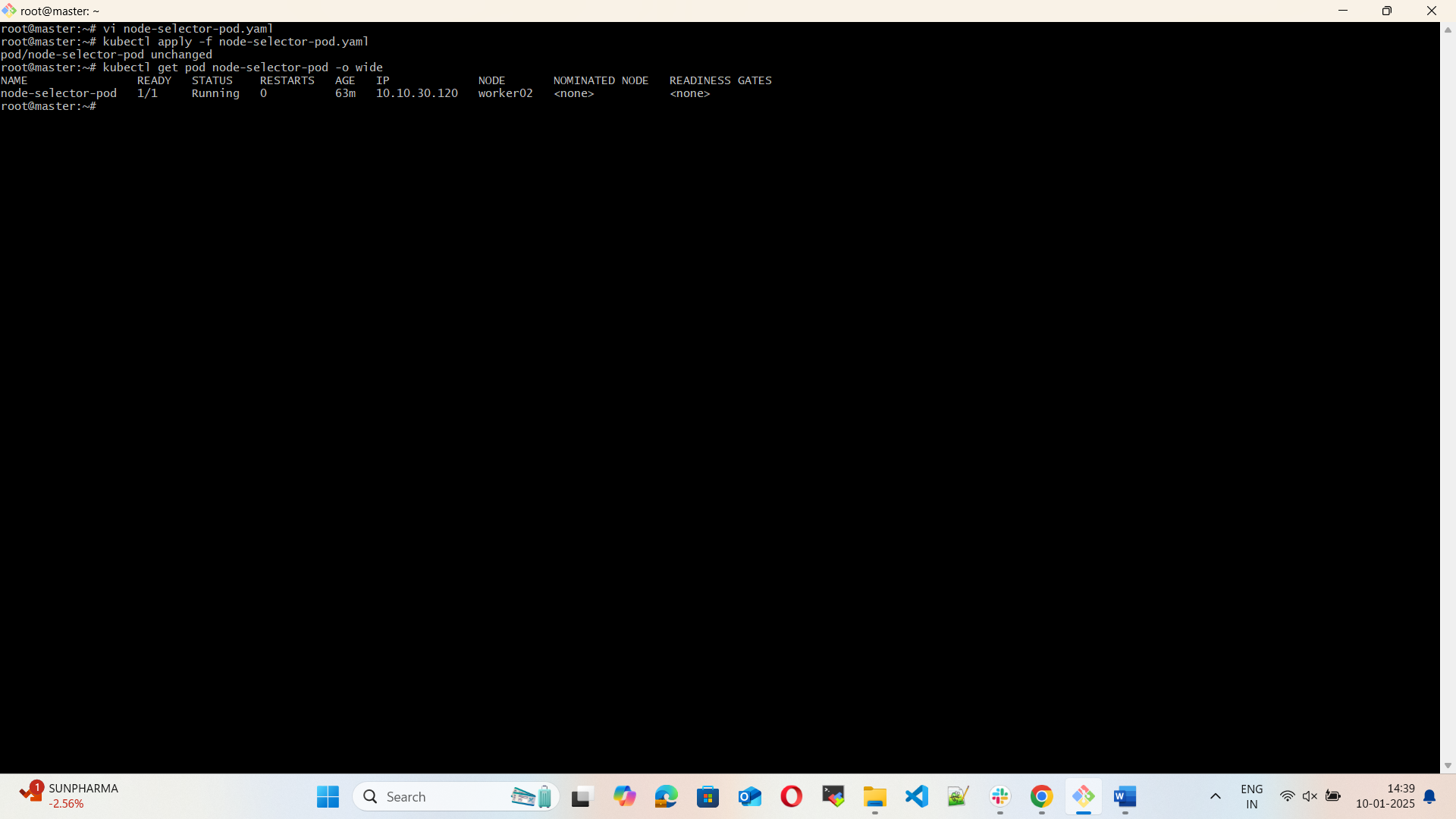


Task 3: Use NodeSelector to Schedule a Pod on a Specific Node

Label a node with env=dev.

Create a pod with a nodeSelector that schedules it only on the node labeled env=dev.



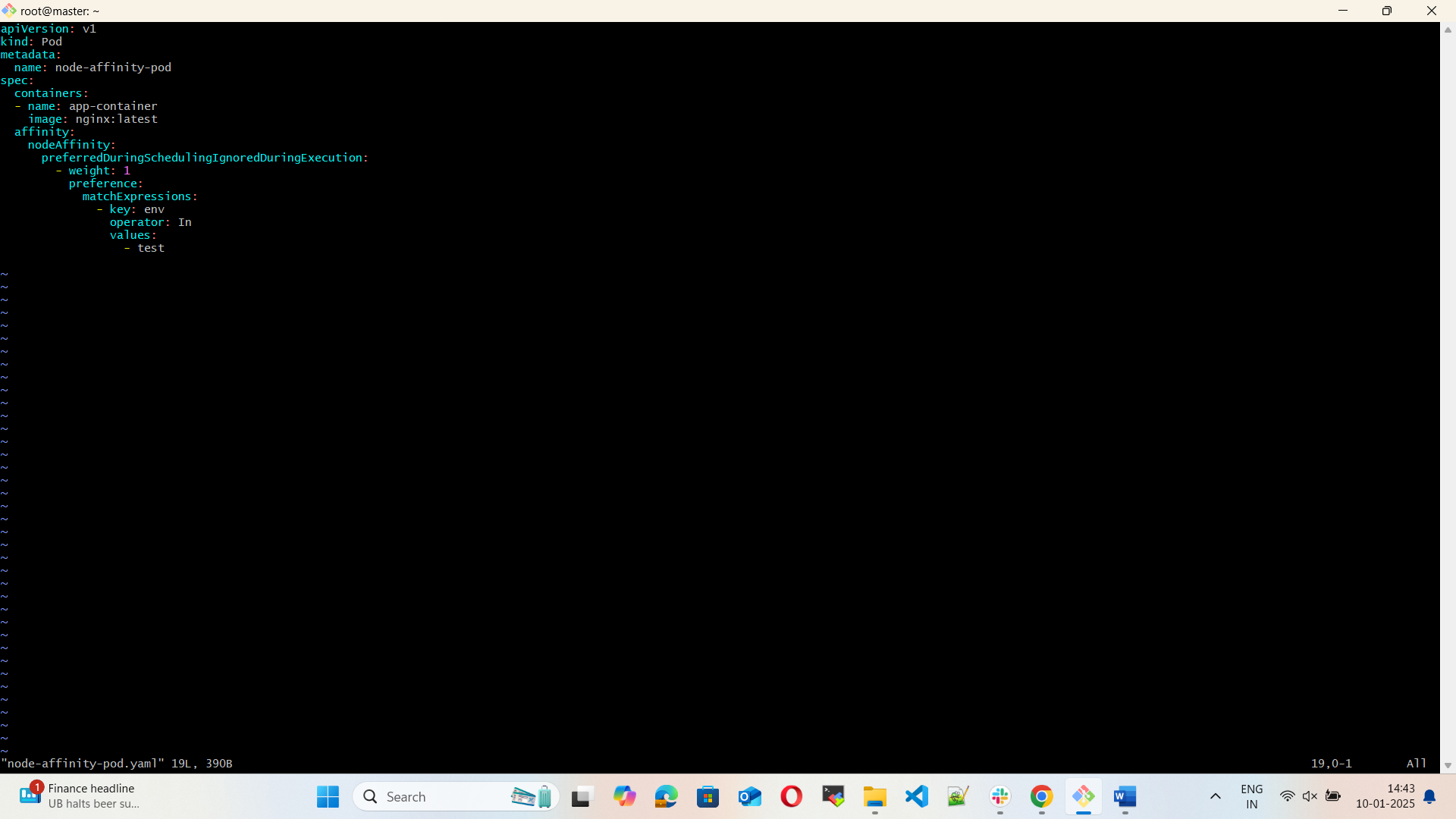


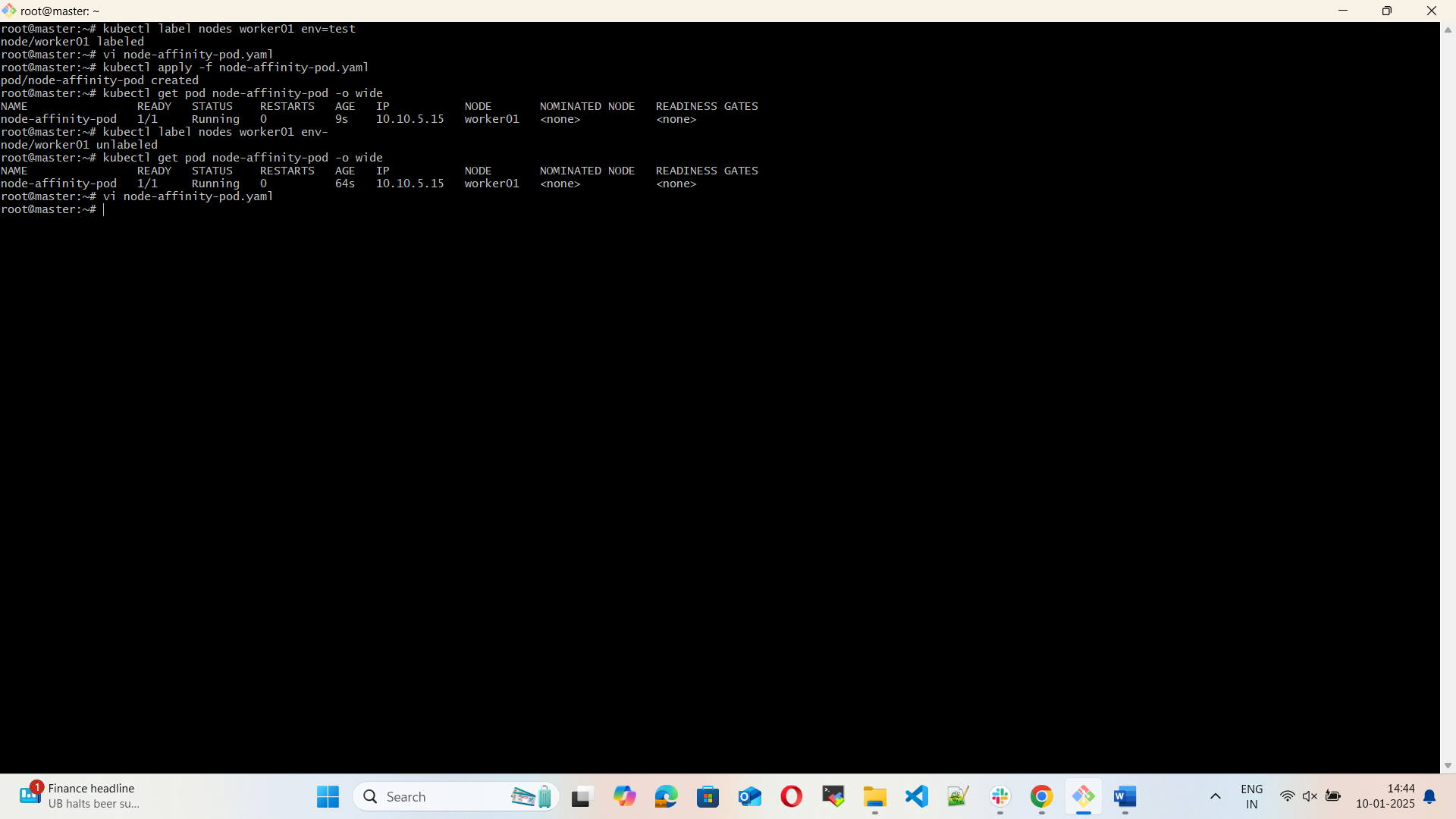
Task 4: Use Node Affinity with Soft Scheduling

Label a node with env=test.

Create a pod with PreferredDuringSchedulingIgnoredDuringExecution node affinity, preferring to schedule it on a node labeled env=test.

Remove the label and verify the pod continues to run.

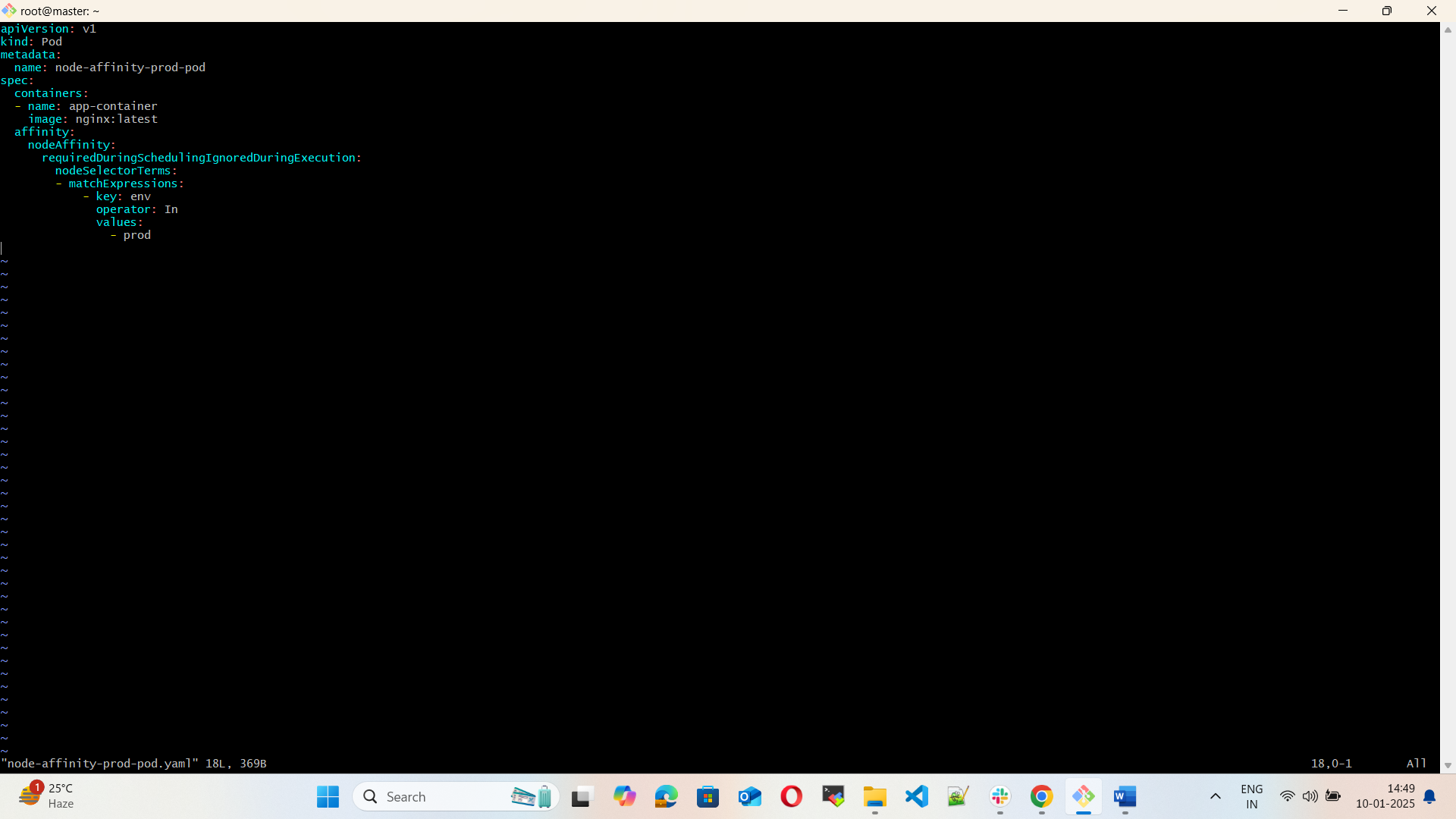


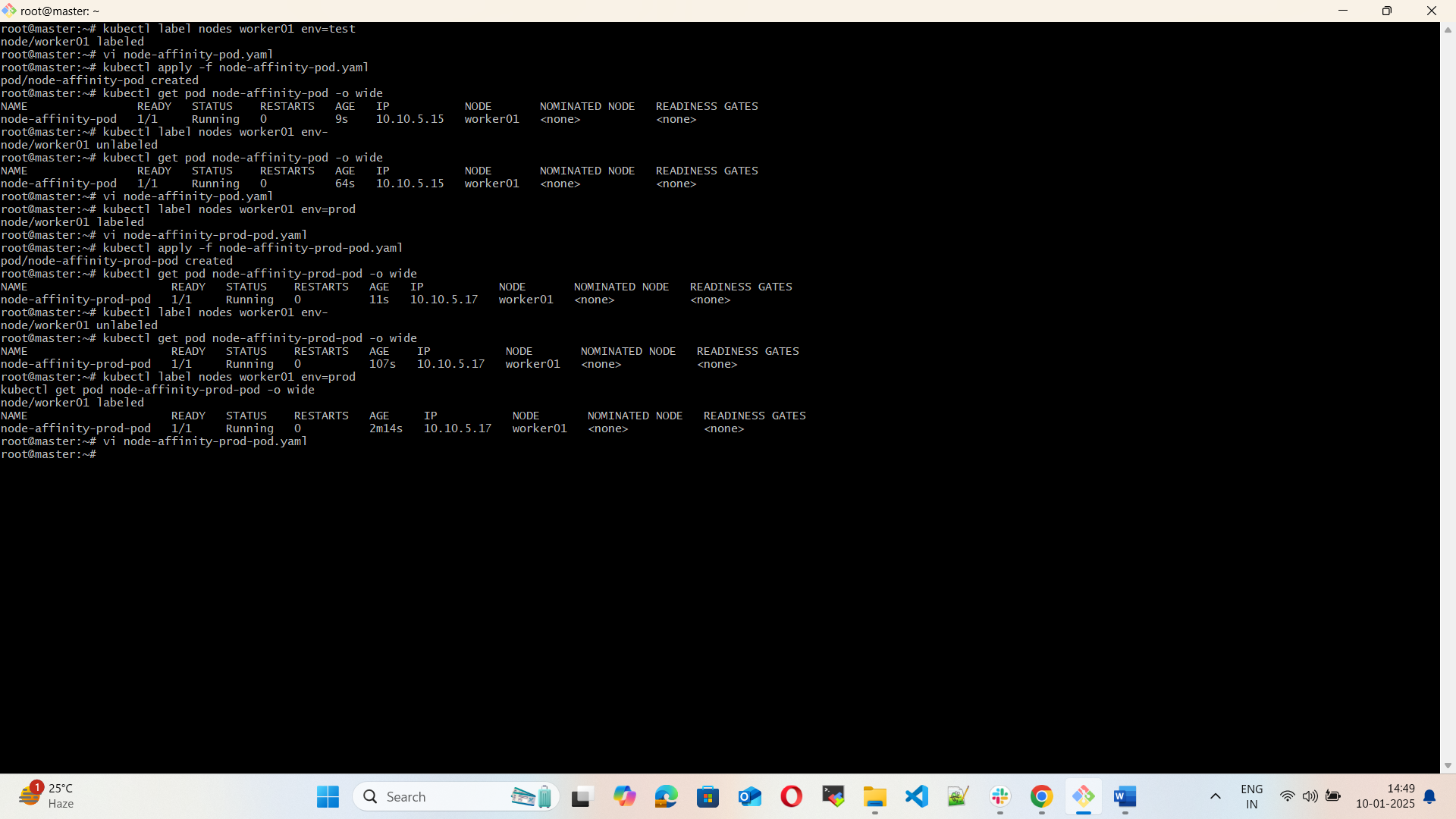


Task 5: Implement Node Affinity with Hard Scheduling

Create a pod with RequiredDuringSchedulingIgnoredDuringExecution node affinity, ensuring it will only be scheduled on a node labeled env=prod.

Verify the pod cannot be scheduled if no node has the env=prod label.





Task 6: Taint a Node and Use NoExecute with Toleration Seconds

Taint a node with special=true:NoExecute.

Create a pod with a tolerationSeconds field (e.g., 60 seconds) and observe it gets evicted after 60 seconds on the tainted node.

