task 2

**- Check if free memory on target is more than 100MB and
install Apache, otherwise do not install**

1- creating project directory

```
# mkdir -p task2
#
# cd task2/
sk2]#
sk2]# vim my_inventory.ini
```

2- Create an inventory file to specify the target hosts

```
[all]

192.168.159.129    ansible_user=fouad2
```

3- Output of ansible setup showing free memory (ansible_memfree_mb)
on the target node

```
[root@192 task2]# ansible all -i my_inventory.ini -m setup | grep mem
            "host": "Non-Volatile memory controller: VMware NVMe SSD Controller",
            "host": "Non-Volatile memory controller: VMware NVMe SSD Controller",
        "ansible_memfree_mb": 1569,    <-------
        "ansible_memory_mb": {
        "ansible_memtotal_mb": 3906,
[root@192 task2]#
```

4- Creating a Playbook with the required tasks

```
vim check_memory.yml
```

```yaml
---
- name: Check free memory and install Apache if memory > 100 MB
  hosts: all
  become: yes
  gather_facts: no

  tasks:
    - name: Gather memory facts only
      setup:
        filter: ansible_mem*
      register: memory_info

    - name: Show free memory
      debug:
        msg: "Free memory is: {{ memory_info.ansible_facts.ansible_memfree_mb }} MB"

    - name: Install Apache if free memory > 100 MB
      yum:
        name: httpd
        state: present
      when: memory_info.ansible_facts.ansible_memfree_mb > 100
```

Verify

```
[root@192 task2]# ansible-playbook -i my_inventory.ini check_memory.yml

PLAY [Check free memory and install Apache if memory > 100 MB] *************************************************

TASK [Gather memory facts only] *************************************************
ok: [192.168.159.129]

TASK [Show free memory] *************************************************
ok: [192.168.159.129] => {
    "msg": "Free memory is: 806 MB"
}

TASK [Install Apache if free memory > 100 MB] *************************************************
changed: [192.168.159.129]

PLAY RECAP *************************************************
192.168.159.129            : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```