

Write an ansible playbook to install python on a Linux Machine.

Requirements:

1. Python version should be variablized.
2. Make sure to check the specified version is already installed. If installed print the appropriate message that the given version is already installed.

Step1 - in the folder assignment2 ,create an **inventory** file to define hosts(I copied the commands from previous inventory.txt)

Step2 -write ansible playbook to define the tasks

```
osboxes@ansiblecontroller:/$ mkdir assignment2
mkdir: cannot create directory 'assignment2': Permission denied
osboxes@ansiblecontroller:/$ sudo mkdir assignment2
[sudo] password for osboxes:
osboxes@ansiblecontroller:/$ cd assignment2
osboxes@ansiblecontroller:/assignment2$ cp assignment1/inventory inventory.txt
cp: cannot stat 'assignment1/inventory': No such file or directory
osboxes@ansiblecontroller:/assignment2$ cp /assignment1/inventory inventory.txt
cp: cannot create regular file 'inventory.txt': Permission denied
osboxes@ansiblecontroller:/assignment2$ sudo cp /assignment1/inventory inventory.txt
osboxes@ansiblecontroller:/assignment2$ ls
inventory.txt
osboxes@ansiblecontroller:/assignment2$ sudo vi playbook.yml
```

playbook.yml

```

-
  name: Install Python
  hosts: all
  become: yes
  vars:
    python_version: 3
  tasks:
    - name: Check if Python {{ python_version }} is already installed
      shell: python{{ python_version }} --version
      register: check_python
      ignore_errors: true

    - name: Install Python {{ python_version }} if not updated
      apt:
        name: "python{{ python_version }}"
        update_cache: true
        state: present
      when: check_python.rc != 0

    - name: Print message if Python {{ python_version }} is already installed
      debug:
        msg: "Python {{ python_version }} is already installed"
      when: check_python.rc == 0

```

Step3 - run the command

```

ansible-playbook playbook.yml -i inventory.txt --extra-vars
  "ansible_sudo_pass=osboxes.org"

```

To test .

Result

```

osboxes@ansiblecontroller:/assignment2$ ansible-playbook playbook.yml -i inventory.txt --extra-vars "ansible_sudo_pass=osboxes.org"
PLAY [Install Python] *****
TASK [Gathering Facts] *****
ok: [target1]

TASK [Check if Python 3 is already installed] *****
changed: [target1]

TASK [Install Python 3 if not updated] *****
skipping: [target1]

TASK [Print message if Python 3 is already installed] *****
ok: [target1] => {
  "msg": "Python 3 is already installed"
}

PLAY RECAP *****
target1                : ok=3    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0

```