```
[student@control1 loops_tasks]$ cat conditional1.yml
---
#If we combine a when statement with a loop, Ansible processes the condition separately for each item.
- name: conditional statements
  hosts: dev
  tasks:
    - name: Run with items greater than 5
      shell: "echo {{ item }}"
      loop: [ 0, 2,4,6,8,10 ]
      when: item > 5
[student@control1 loops_tasks]$
student@control1 loops_tasks]$ ansible-playbook conditional1.yml

PLAY [conditional statements] ***************************************************************************************************************************************

TASK [Gathering Facts] **********************************************************************************************************************************************
ok: [host1.example.com]

TASK [Run with items greater than 5] ********************************************************************************************************************************
skipping: [host1.example.com] => (item=0)
skipping: [host1.example.com] => (item=2)
skipping: [host1.example.com] => (item=4)
changed: [host1.example.com] => (item=6)
changed: [host1.example.com] => (item=8)
changed: [host1.example.com] => (item=10)

PLAY RECAP **********************************************************************************************************************************************************
host1.example.com          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Assignment 1.

Create multiple directories named dir1, dir2, dir3 inside /mnt directory with permission as 775 owner/group as root on the Target systems as mentioned in the inventory file.

```
[student@control1 loops_tasks]$ cat conditional2.yml
---
- name: Create multiple directories named dir1, dir2, dir3 inside /mnt directory with permission as 775 owner/group as root on the Target systems as mentioned in the inventory
file.
  hosts: dev
  tasks:
    - name: Task to create multiple directories using loop
      file:
        path: "/mnt/{{ item }}"
        owner: root
        group: root
        mode: '755'
        state: directory
      loop: ['dir1', 'dir2', 'dir3']

[student@control1 loops_tasks]$ ansible-playbook conditional2.yml

PLAY [Create multiple directories named dir1, dir2, dir3 inside /mnt directory with permission as 775 owner/group as root on the Target systems as mentioned in the inventory
file.] **************************************************************

TASK [Gathering Facts]
**********************************************************************************************************************************************************************
*****************************
ok: [host1.example.com]

TASK [Task to create multiple directories using loop]
**********************************************************************************************************************************************************************
changed: [host1.example.com] => (item=dir1)
changed: [host1.example.com] => (item=dir2)
Changed: [host1.example.com] => (item=dir3)

PLAY RECAP
**********************************************************************************************************************************************************************
*****************************************
host1.example.com          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Assignment 2.

Stop multiple services named httpd and chronyd on host1 as mentioned in the inventory file.

```
[student@control1 loops_tasks]$ cat conditional3.yml
---
- name: Stop multiple services named httpd and chronyd on host1 as mentioned in the inventory file.
  hosts: dev
  tasks:
    - name: Stop httpd and chronyd services
      service:
        name: "{{ item }}"
        state: stopped
      loop: ['httpd', 'chronyd']
[student@control1 loops_tasks]$ ansible-playbook conditional3.yml

PLAY [Stop multiple services named httpd and chronyd on host1 as mentioned in the inventory file.]
*********************************************************************************************************************************************************

TASK [Gathering Facts]
*********************************************************************************************************************************************************
*****************************
ok: [host1.example.com]

TASK [Stop httpd and chronyd services]
*********************************************************************************************************************************************************
*************
ok: [host1.example.com] => (item=httpd)
changed: [host1.example.com] => (item=chronyd)

PLAY RECAP
*********************************************************************************************************************************************************
*****************************************
host1.example.com          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Assignment 3.
Create multiple users on servers group with the following details:
Username=user1 Password=redhat123 Group=wheel
Username=user2 Password=redhat123 Group=mysql,wheel

Encrypting redhat123

```
[student@control1 loops_tasks]$ openssl passwd -6
Password:
Verifying - Password:
$6$tfPP9QRg1uGR/jfB$m.mQhsjrmPXqNjv.jX3kPizqJIxCw00ctH2d3jJMOXGoxi//U//zNg.NIWHSOwuZviMluG7tSzNh1R1V2zq.A.
[student@control1 loops_tasks]$
```

Specified below in secret.yml
password: 6tfPP9QRg1uGR/jfB$m.mQhsjrmPXqNjv.jX3kPizqJIxCw00ctH2d3jJMOXGoxi//U//zNg.NIWHSOwuZviMluG7tSzNh1R1V2zq.A.

Encrypt the file using ansible-vault and passing encryption password using file vault-password-file

```
-rw-------. 1 student student   7 May 15 07:11 vault_password
[student@control1 loops_tasks]$
[student@control1 servers]$ ansible-vault encrypt secret.yml --vault-password-file=../../vault_password
Encryption successful
```

```
[student@control1 loops_tasks]$ cat group_vars/servers/vars.yaml
user_details:
  - name: user1
    group: wheel

  - name: user2
    group: wheel
    group: mysql
```

```
[student@control1 loops_tasks]$ cat conditional4.yml
---
- name: Create multiple users on servers group with the following details
  vars_files:
    - group_vars/servers/vars.yaml
    - group_vars/servers/secret.yml
  hosts: servers
  tasks:
    - name: Create multiple users
      user:
```

```
      name: "{{ item.name }}"
      groups: "{{ item.group }}"
      password: "{{ password }}"
    with_items: "{{ user_details }}"

[student@control1 loops_tasks]$
```

```
[WARNING]: While constructing a mapping from /home/student/GDS/ansible/loops_tasks/group_vars/servers/vars.yaml, line 8, column 5, found a duplicate dict key (group).
Using last defined value only.

PLAY [Create multiple users on servers group with the following details]
*********************************************************************************************************************************************************************************
*****************************************

TASK [Gathering Facts]
*********************************************************************************************************************************************************************************
*********************************************************************************************
ok: [host2.example.com]
ok: [host1.example.com]

TASK [Create multiple users]
*********************************************************************************************************************************************************************************
*********************************************************************************************
ok: [host1.example.com] => (item={'name': 'user1', 'group': 'wheel'})
ok: [host2.example.com] => (item={'name': 'user1', 'group': 'wheel'})
changed: [host1.example.com] => (item={'name': 'user2', 'group': 'mysql'})
changed: [host2.example.com] => (item={'name': 'user2', 'group': 'mysql'})

PLAY RECAP
*********************************************************************************************************************************************************************************
**************************************************************************************************
host1.example.com          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
host2.example.com          : ok=2    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Assignment 4.
Install system updates on host1 if the operating system is CentOS, and on host2 if the operating system is Ubuntu.

```
[student@control1 loops_tasks]$ cat conditional5.yml
---
- name: Install system updates on host1 if the operating system is CentOS, and on host2 if the operating system is Ubuntu.
  hosts: servers
  tasks:
    - name: System updates on host1 if the OS is CentOS
      yum:
        name: "*"
        state: latest
      when:
        ansible_distribution == "CentOS" and inventory_hostname == "host1.example.com"
      register: results
    - name: System updates on host2 if the OS is Ubuntu
      yum:
        name: "*"
        state: latest
      when:
        ansible_distribution == "Ubuntu" and inventory_hostname == "host2.example.com"
    - name: print results
      debug:
        var: results
```

```
[student@control1 loops_tasks]$ ansible-playbook conditional5.yml --vault-password-file=vault_password

PLAY [Install system updates on host1 if the operating system is CentOS, and on host2 if the operating system is Ubuntu.]
*********************************************************************************************************************************************************************************
[WARNING]: While constructing a mapping from /home/student/GDS/ansible/loops_tasks/group_vars/servers/vars.yaml, line 8, column 5, found a duplicate dict key (group).
Using last defined value only.

TASK [Gathering Facts]
*********************************************************************************************************************************************************************************
*********************************************************************************************
ok: [host2.example.com]
ok: [host1.example.com]

TASK [System updates on host1 if the OS is CentOS]
*********************************************************************************************************************************************************************************
*******************************************************************
```

```
skipping: [host2.example.com]
changed: [host1.example.com]

TASK [System updates on host2 if the OS is Ubuntu]
*********************************************************************************************************************************************************************************************************
*********************************************************************
skipping: [host1.example.com]
skipping: [host2.example.com]

TASK [print results]
*********************************************************************************************************************************************************************************************************
*********************************************************************************************
ok: [host1.example.com] => {
    "results": {
        "changed": true,
        "failed": false,
        "msg": "",
        "rc": 0,
        "results": [
            "Installed: openssh-8.0p1-8.el8.x86_64",
            "Installed: libndp-1.7-6.el8.x86_64",
            "Installed: libstdc++-8.4.1-2.1.el8.x86_64",
            "Installed: python3-syspurpose-1.28.16-1.el8.x86_64",
            "Installed: openssh-clients-8.0p1-8.el8.x86_64",
            "Installed: kpartx-0.8.4-11.el8.0.1.x86_64",
            "Installed: libstoragemgmt-1.9.1-1.el8.x86_64",
            "Installed: openssh-server-8.0p1-8.el8.x86_64",
            "Installed: quota-1:4.04-14.el8.x86_64",
            "Installed: krb5-libs-1.18.2-10.el8.x86_64",
            "Installed: quota-nls-1:4.04-14.el8.noarch",
            "Installed: libgcc-8.4.1-2.1.el8.x86_64",
            "Installed: device-mapper-multipath-0.8.4-11.el8.0.1.x86_64",
            "Installed: device-mapper-multipath-libs-0.8.4-11.el8.0.1.x86_64",
            "Installed: iproute-5.12.0-0.el8.x86_64",
            "Installed: libtirpc-1.1.4-5.el8.x86_64",
            "Installed: libgomp-8.4.1-2.1.el8.x86_64",
            "Installed: pcre-8.42-5.el8.0.1.x86_64",
            "Installed: glibc-langpack-en-2.28-158.el8.x86_64",
            "Installed: binutils-2.30-102.el8.x86_64",
            "Installed: dmidecode-1:3.2-10.el8.x86_64",
            "Installed: glib2-2.56.4-11.el8.x86_64",
            "Installed: dracut-049-136.git20210426.el8.x86_64",
            "Installed: dracut-config-rescue-049-136.git20210426.el8.x86_64",
            "Installed: dracut-network-049-136.git20210426.el8.x86_64",
            "Installed: dracut-squash-049-136.git20210426.el8.x86_64",
            "Installed: cockpit-packagekit-242-1.el8.noarch",
            "Installed: centos-stream-release-8.5-3.el8.noarch",
            "Installed: glibc-2.28-158.el8.x86_64",
            "Installed: glibc-common-2.28-158.el8.x86_64",
            "Installed: python3-libstoragemgmt-1.9.1-1.el8.x86_64",
            "Installed: cockpit-242-1.el8.x86_64",
            "Installed: cockpit-storaged-242-1.el8.noarch",
            "Installed: cockpit-bridge-242-1.el8.x86_64",
            "Installed: NetworkManager-1:1.32.0-0.2.el8.x86_64",
            "Installed: libxcrypt-4.1.1-6.el8.x86_64",
            "Installed: cockpit-system-242-1.el8.noarch",
            "Installed: cockpit-ws-242-1.el8.x86_64",
            "Installed: nvme-cli-1.12-3.el8.0.1.x86_64",
            "Installed: NetworkManager-config-server-1:1.32.0-0.2.el8.noarch",
            "Installed: udisks2-2.9.0-7.el8.x86_64",
            "Installed: json-c-0.13.1-1.el8.x86_64",
            "Installed: libudisks2-2.9.0-7.el8.x86_64",
            "Installed: udisks2-iscsi-2.9.0-7.el8.x86_64",
            "Installed: NetworkManager-libnm-1:1.32.0-0.2.el8.x86_64",
            "Installed: virt-what-1.18-10.el8.x86_64",
            "Installed: udisks2-lvm2-2.9.0-7.el8.x86_64",
            "Installed: NetworkManager-team-1:1.32.0-0.2.el8.x86_64",
            "Installed: NetworkManager-tui-1:1.32.0-0.2.el8.x86_64",
            "Installed: libssh-0.9.4-3.el8.x86_64",
            "Installed: libssh-config-0.9.4-3.el8.noarch",
            "Installed: file-5.33-18.el8.0.1.x86_64",
            "Installed: sos-4.1-1.el8.noarch",
            "Installed: file-libs-5.33-18.el8.0.1.x86_64",
            "Installed: cups-libs-1:2.2.6-39.el8.x86_64",
            "Removed: python3-syspurpose-1.28.13-2.el8.x86_64",
            "Removed: NetworkManager-1:1.32.0-0.1.el8.x86_64",
            "Removed: NetworkManager-config-server-1:1.32.0-0.1.el8.noarch",
            "Removed: NetworkManager-libnm-1:1.32.0-0.1.el8.x86_64",
            "Removed: NetworkManager-team-1:1.32.0-0.1.el8.x86_64",
            "Removed: NetworkManager-tui-1:1.32.0-0.1.el8.x86_64",
            "Removed: quota-1:4.04-12.el8.x86_64",
```

```
        "Removed: quota-nls-1:4.04-12.el8.noarch",
        "Removed: glib2-2.56.4-9.el8.x86_64",
        "Removed: glibc-2.28-155.el8.x86_64",
        "Removed: glibc-common-2.28-155.el8.x86_64",
        "Removed: glibc-langpack-en-2.28-155.el8.x86_64",
        "Removed: libgcc-8.4.1-1.el8.x86_64",
        "Removed: libgomp-8.4.1-1.el8.x86_64",
        "Removed: nvme-cli-1.12-3.el8.x86_64",
        "Removed: binutils-2.30-101.el8.x86_64",
        "Removed: openssh-8.0p1-5.el8.x86_64",
        "Removed: openssh-clients-8.0p1-5.el8.x86_64",
        "Removed: openssh-server-8.0p1-5.el8.x86_64",
        "Removed: sos-4.0-11.el8.noarch",
        "Removed: centos-stream-release-8.5-2.el8.noarch",
        "Removed: libndp-1.7-5.el8.x86_64",
        "Removed: pcre-8.42-5.el8.x86_64",
        "Removed: cockpit-238.2-1.el8.x86_64",
        "Removed: cockpit-bridge-238.2-1.el8.x86_64",
        "Removed: cockpit-packagekit-238.2-1.el8.noarch",
        "Removed: iproute-5.9.0-4.el8.x86_64",
        "Removed: cockpit-storaged-238.2-1.el8.noarch",
        "Removed: cockpit-system-238.2-1.el8.noarch",
        "Removed: cockpit-ws-238.2-1.el8.x86_64",
        "Removed: udisks2-2.9.0-6.el8.x86_64",
        "Removed: udisks2-iscsi-2.9.0-6.el8.x86_64",
        "Removed: udisks2-lvm2-2.9.0-6.el8.x86_64",
        "Removed: cups-libs-1:2.2.6-38.el8.x86_64",
        "Removed: libssh-0.9.4-2.el8.x86_64",
        "Removed: libssh-config-0.9.4-2.el8.noarch",
        "Removed: json-c-0.13.1-0.4.el8.x86_64",
        "Removed: libstdc++-8.4.1-1.el8.x86_64",
        "Removed: virt-what-1.18-9.el8.x86_64",
        "Removed: libstoragemgmt-1.8.7-1.el8.x86_64",
        "Removed: device-mapper-multipath-0.8.4-11.el8.x86_64",
        "Removed: device-mapper-multipath-libs-0.8.4-11.el8.x86_64",
        "Removed: libtirpc-1.1.4-4.el8.x86_64",
        "Removed: libudisks2-2.9.0-6.el8.x86_64",
        "Removed: kpartx-0.8.4-11.el8.x86_64",
        "Removed: python3-libstoragemgmt-1.8.7-1.el8.noarch",
        "Removed: dmidecode-1:3.2-8.el8.x86_64",
        "Removed: krb5-libs-1.18.2-8.el8.x86_64",
        "Removed: python3-libstoragemgmt-clibs-1.8.7-1.el8.x86_64",
        "Removed: dracut-049-135.git20210121.el8.x86_64",
        "Removed: dracut-config-rescue-049-135.git20210121.el8.x86_64",
        "Removed: dracut-network-049-135.git20210121.el8.x86_64",
        "Removed: dracut-squash-049-135.git20210121.el8.x86_64",
        "Removed: libxcrypt-4.1.1-5.el8.x86_64",
        "Removed: file-5.33-18.el8.x86_64",
        "Removed: file-libs-5.33-18.el8.x86_64"
    ]
  }
}
ok: [host2.example.com] => {
  "results": {
    "changed": false,
    "skip_reason": "Conditional result was False",
    "skipped": true
  }
}

PLAY RECAP
*********************************************************************************************************************************************************************************
*********************************************************************************************
host1.example.com          : ok=3    changed=1    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
host2.example.com          : ok=2    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0
```

1. Deploy httpd package on host2. Copy the httpd.conf file from control node to managed host. Create the default document with the content "Hello Wolrd". Notify that if any change occurs in configuration file it will restart the httpd service. Configure firewall for http service and port 8080/tcp.

2. From control node use curl to check access. [curl http://host1:8080]

3. Modify the httpd.conf file with vim, change the line 'Listen 8080' to 'Listen 80'

4. Run the play book once again and check whether httpd service restart triggerd or not.

5. Run the play book once again and observ the difference.

6. From control node use curl to check access. [curl http://host1:8080] , which will fail. Now try with [curl http://host1]

```
[student@control1 loops_tasks]$ cat conditional8.yml
---
- name: Deploy httpd package on host2. Copy the httpd.conf file from control node to managed host. Create the default document with the content "Hello Wolrd". Notify that if
any change occurs in configuration file it will restart the httpd service. Configure firewall for http service and port 8080/tcp.
  hosts: dev
  tasks:
    - block:
        - name: Install httpd
          yum:
            name: httpd
            state: present
          register: httpstat
        - name: open firewalld
          firewalld:
            service: http
            permanent: yes
            state: enabled
        - name: copy content from control node to managed node
          copy:
            content: "Hello World"
            dest: /var/www/html/index.html
        - name: Restart Apache
          service:
            name: httpd
            state: restarted
            enabled: true
          when: httpstat.changed == True
        - debug:
            var: httpstat
    - name: copy httpd.conf from control node to managed node
      copy:
        src: httpd.conf
        dest: /etc/httpd/conf
      register: httpdconf
    - debug:
        var: httpdconf
    - name: Restart Apache
      service:
        name: httpd
        state: reloaded
        enabled: true
      when: httpdconf.changed == True
    - name: check http://host1:8080
      uri:
        url: http://host1.example.com:8080
        return_content: True
      ignore_errors: yes
      register: result
    - name: print the url response
      debug:
        var: result
[student@control1 loops_tasks]$
```

```
[student@control1 loops_tasks]$ ansible-playbook conditional8.yml --vault-password-file=ans_vault

PLAY [Deploy httpd package on host2. Copy the httpd.conf file from control node to managed host. Create the default document with the content "Hello Wolrd". Notify that if any
change occurs in configuration file it will restart the httpd service. Configure firewall for http service and port 8080/tcp.] ***
[WARNING]: While constructing a mapping from /home/student/GDS/ansible/loops_tasks/group_vars/servers/vars.yaml, line 8, column 5, found a duplicate dict key (group).
Using last defined
value only.

TASK [Gathering Facts] ********************************************************************************************************************************************************
ok: [host1.example.com]

TASK [Install httpd] **********************************************************************************************************************************************************
changed: [host1.example.com]

TASK [open firewalld] *********************************************************************************************************************************************************
ok: [host1.example.com]

TASK [copy content from control node to managed node] *************************************************************************************************************************
ok: [host1.example.com]

TASK [Restart Apache] *********************************************************************************************************************************************************
changed: [host1.example.com]

TASK [debug] ******************************************************************************************************************************************************************
ok: [host1.example.com] => {
```

```
    "httpstat": {
        "changed": true,
        "failed": false,
        "msg": "",
        "rc": 0,
        "results": [
            "Installed: apr-util-1.6.1-6.el8.x86_64",
            "Installed: apr-util-bdb-1.6.1-6.el8.x86_64",
            "Installed: apr-util-openssl-1.6.1-6.el8.x86_64",
            "Installed: centos-logos-httpd-82.0-2.el8.noarch",
            "Installed: mod_http2-1.15.7-2.module_el8.3.0+477+498bb568.x86_64",
            "Installed: httpd-2.4.37-30.module_el8.3.0+462+ba287492.0.1.x86_64",
            "Installed: apr-1.6.3-11.el8.x86_64",
            "Installed: httpd-filesystem-2.4.37-30.module_el8.3.0+462+ba287492.0.1.noarch",
            "Installed: httpd-tools-2.4.37-30.module_el8.3.0+462+ba287492.0.1.x86_64"
        ]
    }
}

TASK [copy httpd.conf from control node to managed node] ***********************************************************************************************************************
changed: [host1.example.com]

TASK [debug] *******************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "httpdconf": {
        "changed": true,
        "checksum": "0b843decaf9cab939c18b9081996bfc987eeedc5",
        "dest": "/etc/httpd/conf/httpd.conf",
        "diff": [],
        "failed": false,
        "gid": 0,
        "group": "root",
        "md5sum": "d377b68c019fea25237314f3a0331836",
        "mode": "0644",
        "owner": "root",
        "size": 11914,
        "src": "/home/devops/.ansible/tmp/ansible-tmp-1621169931.276538-42955-48912078037233/source",
        "state": "file",
        "uid": 0
    }
}

TASK [Restart Apache] **********************************************************************************************************************************************************
changed: [host1.example.com]

TASK [check http://host1:8080] *************************************************************************************************************************************************
ok: [host1.example.com]

TASK [print the url response] **************************************************************************************************************************************************
ok: [host1.example.com] => {
    "result": {
        "accept_ranges": "bytes",
        "changed": false,
        "connection": "close",
        "content": "Hello World",
        "content_length": "11",
        "content_type": "text/html; charset=UTF-8",
        "cookies": {},
        "cookies_string": "",
        "date": "Thu, 20 May 2021 02:46:01 GMT",
        "elapsed": 0,
        "etag": "\"b-5c267da66cac9\"",
        "failed": false,
        "last_modified": "Sun, 16 May 2021 00:49:45 GMT",
        "msg": "OK (11 bytes)",
        "redirected": false,
        "server": "Apache/2.4.37 (centos)",
        "status": 200,
        "url": "http://host1.example.com:8080"
    }
}

PLAY RECAP *********************************************************************************************************************************************************************
host1.example.com          : ok=11   changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

[student@control1 loops_tasks]$
```

3. Modify the httpd.conf file with vim, change the line 'Listen 8080' to 'Listen 80'

```
[student@control1 loops_tasks]$ ansible-playbook conditional8.yml --vault-password-file=ans_vault
```

```
PLAY [Deploy httpd package on host2. Copy the httpd.conf file from control node to managed host. Create the default document with the content "Hello Wolrd". Notify that if any change occurs in configuration file it will restart the httpd service. Configure firewall for http service and port 8080/tcp.] ***
[WARNING]: While constructing a mapping from /home/student/GDS/ansible/loops_tasks/group_vars/servers/vars.yaml, line 8, column 5, found a duplicate dict key (group). Using last defined
value only.

TASK [Gathering Facts] *********************************************************************************************************************************************************************
ok: [host1.example.com]

TASK [Install httpd] ***********************************************************************************************************************************************************************
ok: [host1.example.com]

TASK [open firewalld] **********************************************************************************************************************************************************************
ok: [host1.example.com]

TASK [copy content from control node to managed node] ***************************************************************************************************************************************
ok: [host1.example.com]

TASK [Restart Apache] **********************************************************************************************************************************************************************
skipping: [host1.example.com]

TASK [debug] *******************************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "httpstat": {
        "changed": false,
        "failed": false,
        "msg": "Nothing to do",
        "rc": 0,
        "results": []
    }
}

TASK [copy httpd.conf from control node to managed node] ***********************************************************************************************************************************
changed: [host1.example.com]

TASK [debug] *******************************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "httpdconf": {
        "changed": true,
        "checksum": "561dbadfb0051206072e783c43822893524fe7c7",
        "dest": "/etc/httpd/conf/httpd.conf",
        "diff": [],
        "failed": false,
        "gid": 0,
        "group": "root",
        "md5sum": "774d4221b910820790feb3a39324f480",
        "mode": "0644",
        "owner": "root",
        "size": 11912,
        "src": "/home/devops/.ansible/tmp/ansible-tmp-1621170096.7130566-43091-156434259356248/source",
        "state": "file",
        "uid": 0
    }
}

TASK [Restart Apache] **********************************************************************************************************************************************************************
changed: [host1.example.com]

TASK [check http://host1:8080] *************************************************************************************************************************************************************
ok: [host1.example.com]

TASK [print the url response] **************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "result": {
        "accept_ranges": "bytes",
        "changed": false,
        "connection": "close",
        "content": "Hello World",
        "content_length": "11",
        "content_type": "text/html; charset=UTF-8",
        "cookies": {},
        "cookies_string": "",
        "date": "Thu, 20 May 2021 02:48:34 GMT",
        "elapsed": 0,
        "etag": "\"b-5c267da66cac9\"",
        "failed": false,
        "last_modified": "Sun, 16 May 2021 00:49:45 GMT",
        "msg": "OK (11 bytes)",
        "redirected": false,
        "server": "Apache/2.4.37 (centos)",
        "status": 200,
```

```
        "url": "http://host1.example.com:80"
    }
}

PLAY RECAP *********************************************************************************************************************************************************************
host1.example.com          : ok=10   changed=2    unreachable=0    failed=0    skipped=1    rescued=0    ignored=0
```

6. From control node use curl to check access. [curl http://host1:8080] , which will fail. Now try with [curl http://host1]

```
[student@control1 loops_tasks]$ ansible-playbook conditional8.yml --vault-password-file=ans_vault

PLAY [Deploy httpd package on host2. Copy the httpd.conf file from control node to managed host. Create the default document with the content "Hello Wolrd". Notify that if any
change occurs in configuration file it will restart the httpd service. Configure firewall for http service and port 8080/tcp.] ***
[WARNING]: While constructing a mapping from /home/student/GDS/ansible/loops_tasks/group_vars/servers/vars.yaml, line 8, column 5, found a duplicate dict key (group).
Using last defined
value only.

TASK [Gathering Facts] *********************************************************************************************************************************************************
ok: [host1.example.com]

TASK [Install httpd] ***********************************************************************************************************************************************************
ok: [host1.example.com]

TASK [open firewalld] **********************************************************************************************************************************************************
ok: [host1.example.com]

TASK [copy content from control node to managed node] ***************************************************************************************************************************
ok: [host1.example.com]

TASK [Restart Apache] **********************************************************************************************************************************************************
skipping: [host1.example.com]

TASK [debug] *******************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "httpstat": {
        "changed": false,
        "failed": false,
        "msg": "Nothing to do",
        "rc": 0,
        "results": []
    }
}

TASK [copy httpd.conf from control node to managed node] ************************************************************************************************************************
ok: [host1.example.com]

TASK [debug] *******************************************************************************************************************************************************************
ok: [host1.example.com] => {
    "httpdconf": {
        "changed": false,
        "checksum": "561dbadfb0051206072e783c43822893524fe7c7",
        "dest": "/etc/httpd/conf/httpd.conf",
        "diff": {
            "after": {
                "path": "/etc/httpd/conf/httpd.conf"
            },
            "before": {
                "path": "/etc/httpd/conf/httpd.conf"
            }
        },
        "failed": false,
        "gid": 0,
        "group": "root",
        "mode": "0644",
        "owner": "root",
        "path": "/etc/httpd/conf/httpd.conf",
        "size": 11912,
        "state": "file",
        "uid": 0
    }
}

TASK [Restart Apache] **********************************************************************************************************************************************************
skipping: [host1.example.com]

TASK [check http://host1:8080] *************************************************************************************************************************************************
fatal: [host1.example.com]: FAILED! => {"changed": false, "content": "", "elapsed": 0, "msg": "Status code was -1 and not [200]: Request failed: <urlopen error [Errno 111]
Connection refused>", "redirected": false, "status": -1, "url": "http://host1.example.com:8080"}
...ignoring
```

```
TASK [print the url response] ********************************************************************************************************************************************************
ok: [host1.example.com] => {
    "result": {
        "changed": false,
        "content": "",
        "elapsed": 0,
        "failed": true,
        "msg": "Status code was -1 and not [200]: Request failed: <urlopen error [Errno 111] Connection refused>",
        "redirected": false,
        "status": -1,
        "url": "http://host1.example.com:8080"
    }
}

PLAY RECAP ***************************************************************************************************************************************************************************
host1.example.com          : ok=9    changed=0    unreachable=0    failed=0    skipped=2    rescued=0    ignored=1
```