Task 1:

```yaml
day2 > ! hello-playbook.yaml > {} 0 > [ ] tasks > {} 0 > {} apt
  1    - name: play1
  2      gather_facts: false
  3      hosts: web-server
  4      tasks:
  5        - name: update
  6          apt:
  7            update_cache: True
  8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS

```
abdo@abdo-Lenovo-Z50-70:~/ansible/day2$ ansible-playbook hello-playbook.yaml
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [play1] ************************************************************************

TASK [update] **********************************************************************
ok: [172.17.0.2]

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

Task 2: Modules

```yaml
day2 > ! hello-playbook.yaml > ...
  1    - name: play1
  2      gather_facts: false
  3      hosts: web-server
  4      tasks:
  5
  6        - name: update and install ngnix servre
  7          apt:
  8              update_cache: True
  9              name: nginx
 10              state: latest
 11
 12        - name: copy index file
 13          copy:
 14            src: ./index.html
 15            dest: /var/www/html/index.html
 16            mode: '0644'
 17
 18        - name: Restarting the web-server
 19          sysvinit:
 20            name: nginx
 21            state: restarted
 22            enabled: yes
 23
 24
 25
```

```
abdo@abdo-Lenovo-Z50-70:~/ansible/day2$ ansible-playbook hello-playbook.yaml
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [play1] *********************************************************************

TASK [update and install ngnix servre] ******************************************
ok: [172.17.0.2]

TASK [copy index file] **********************************************************
ok: [172.17.0.2]

TASK [Restarting the web-server] ************************************************
changed: [172.17.0.2]

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

abdo@abdo-Lenovo-Z50-70:~/ansible/day2$ curl 172.17.0.2
hello from nginxabdo@abdo-Lenovo-Z50-70:~/ansible/day2$ curl 172.17.0.2 ;  echo
hello from nginx
abdo@abdo-Lenovo-Z50-70:~/ansible/day2$
```

Task 3 : tags

```
 1   - name: play2
 2     gather_facts: false
 3     hosts: web-server
 4     tasks:
 5
 6       - name: update cache
 7         tags: update
 8         apt:
 9           update_cache: True
10
11       - name: install nginx
12         tags: install
13         apt:
14           name: nginx
15           state: latest
```

```
abdo@abdo-Lenovo-Z50-70:~/ansible/day2$ ansible-playbook tags.yml --tags update
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [play2] *********************************************************************

TASK [update cache] *************************************************************
ok: [172.17.0.2]

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

```yaml
day2 > ! tags.yml > {} 0 > [ ] tasks > {} 2 > {} copy
1    - name: play2
2      gather_facts: false
3      hosts: web-server
4      tasks:
5
6        - name: update cache
7          tags: update
8          apt:
9            update_cache: True
10
11       - name: install nginx
12         tags: install
13         apt:
14           name: nginx
15           state: latest
16
17       - name: copy index file
18         tags: always
19         copy:
20           src: ./index.html
21           dest: /var/www/html/index.html
22           mode: '0644'
```

```
abdo@abdo-Lenovo-Z50-70:~/ansible/day2$ ansible-playbook tags.yml --tags update
BECOME password:
[WARNING]: Invalid characters were found in group names but not replaced, use -vvvv to see details

PLAY [play2] *********************************************************************

TASK [update cache] *************************************************************
ok: [172.17.0.2]

TASK [copy index file] **********************************************************
ok: [172.17.0.2]

PLAY RECAP **********************************************************************
172.17.0.2                 : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0
    ignored=0
```

Task 4: variables

- **On playbook level**

```
day2 > ! variables.yml > {} 0 > [ ] tasks > {} 0 > {} apt > ▦ state
  1    - name: play1
  2      gather_facts: false
  3      hosts: all
  4      vars:
  5        package_name: nginx
  6        package_state: latest
  7      tasks:
  8
  9        - name:  install ngnix servre
 10          tags: install
 11          apt:
 12            name: "{{package_name}}"
 13            state: "{{package_state}}"
```

- **On inventory level**

```
day1 > ☰ inventory
  1    [web-server]
  2    172.17.0.2
  3
  4    [all:vars]
  5    package_name=httpd
  6    package_state=latest
```

- **On the command line level**

ansible-playbook variables.yml --e "package_name: nginx package_state: latest"