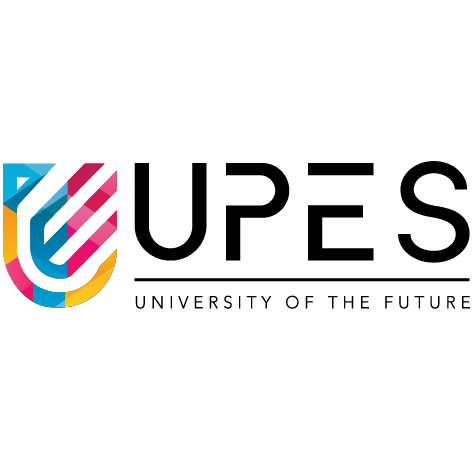
**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**DEHRADUN, UTTARAKHAND**



**2023-2024**

**Software Provisioning and Configuration Management**

**Lab File**

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| **Submitted By:**  **Name: Mridul Singh**  **Sap id: 500094181**  **Roll No.: R2142210501**  **Batch: Devops B1 H** | **Submitted To:**  **Silky Goyal**  **School of Computer Science** |

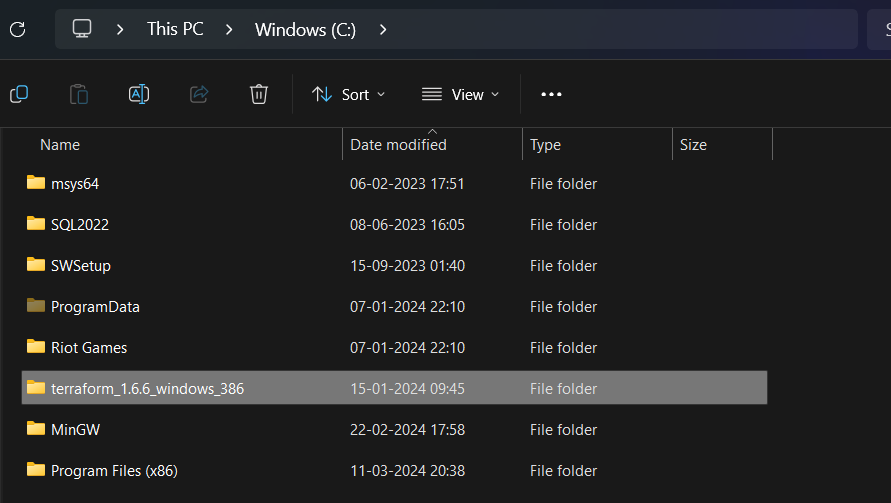
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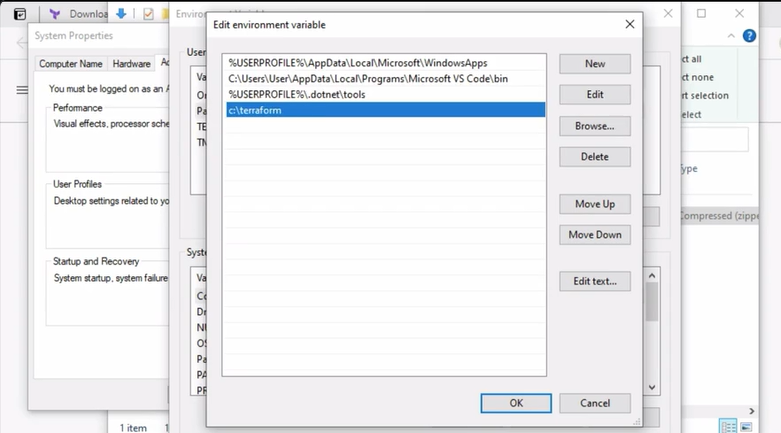
**Experiment - 1**

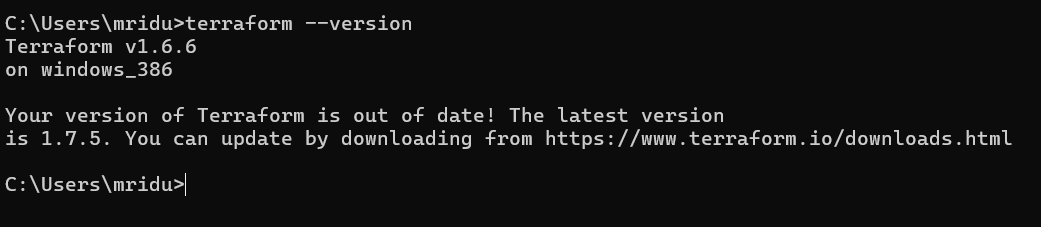
**Aim: Installing Terraform**

To use Terraform you will need to install it. HashiCorp distributes Terraform as a binary package.



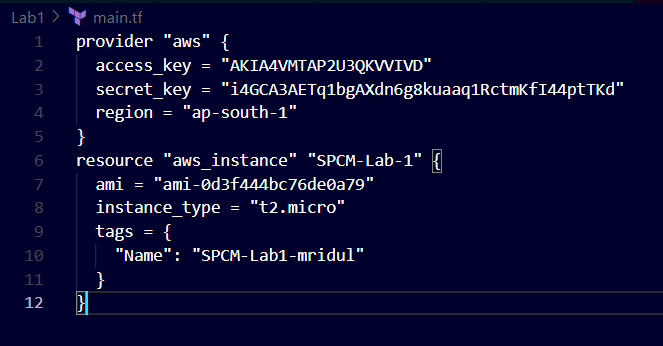
Set Environment Variable for terraform

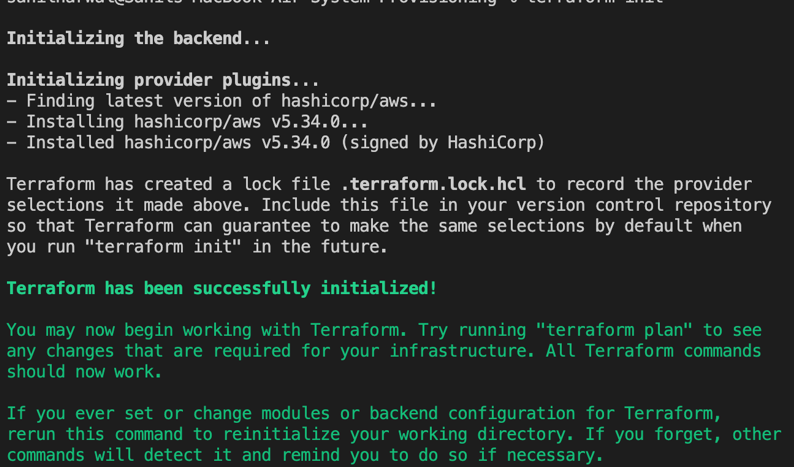




**Experiment – 2**

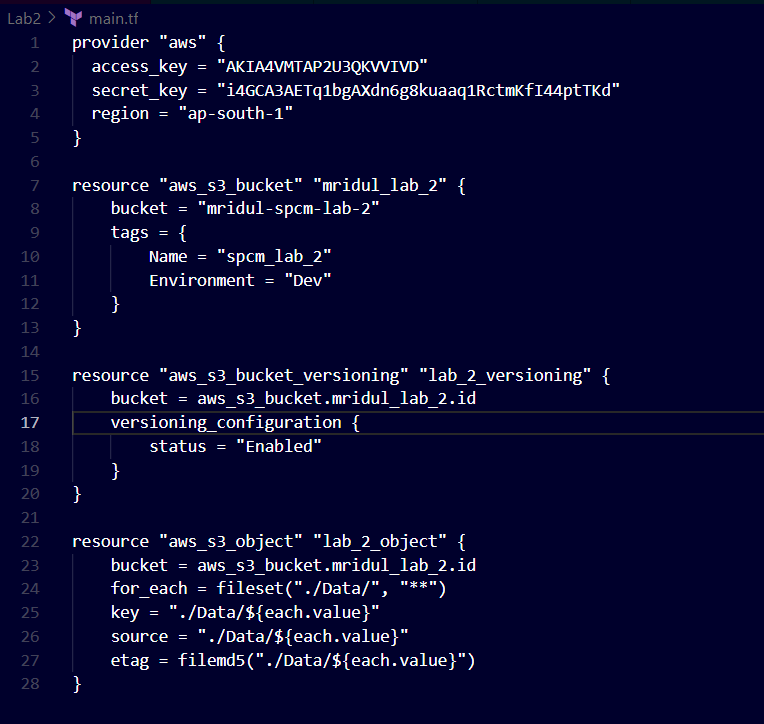
**Aim: Create EC2 on AWS using Terraform**

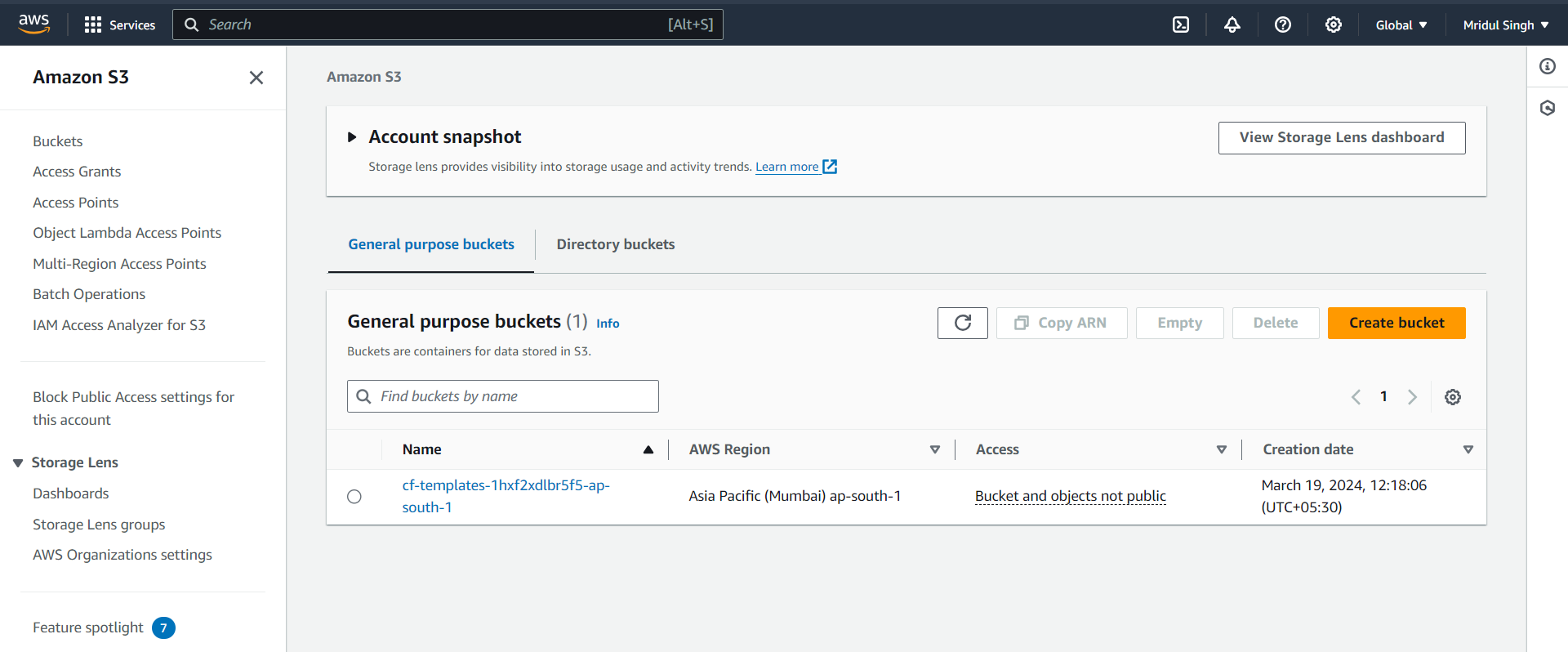




**Experiment - 3**

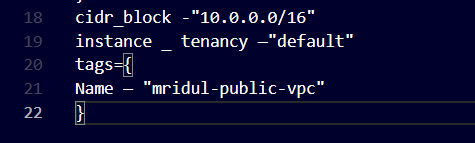
**Aim: Create S3 Bucket on AWS using Terraform**

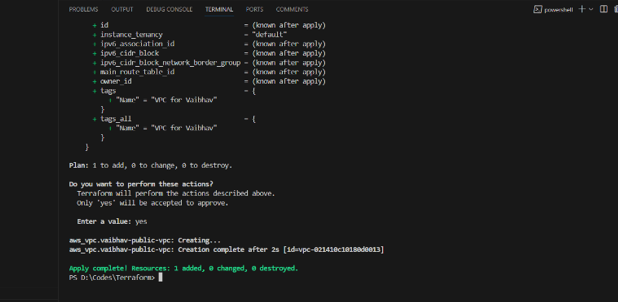


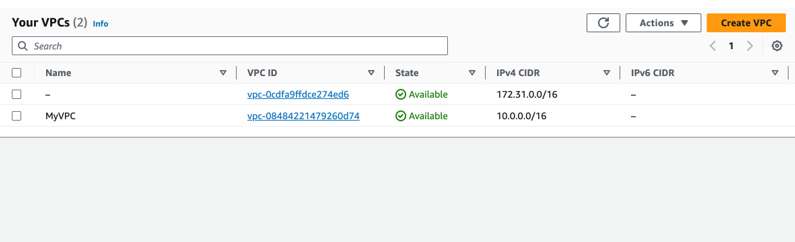


**Experiment - 4**

**Aim: Create VPC on AWS using Terraform**

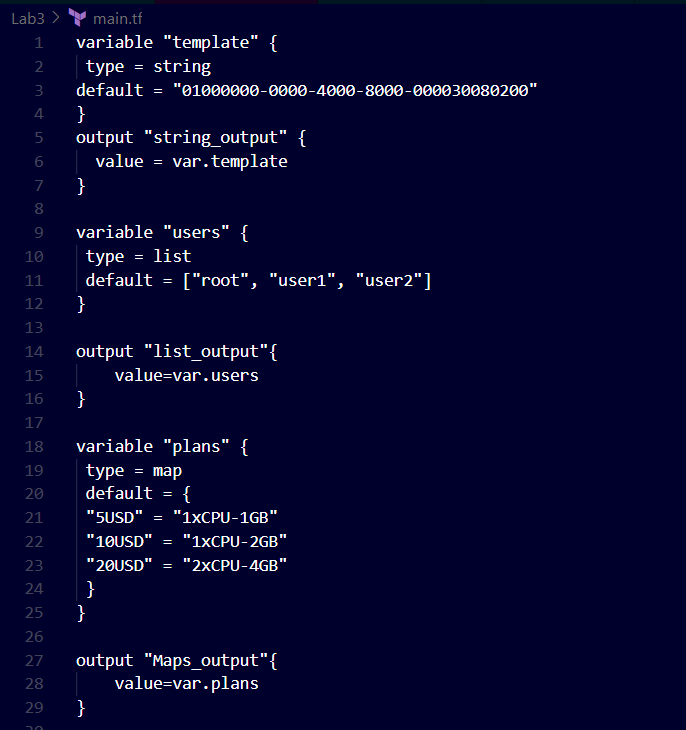
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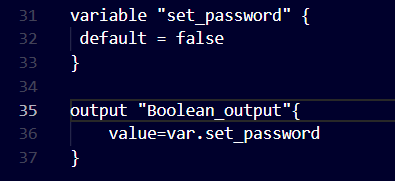
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**Experiment – 5**

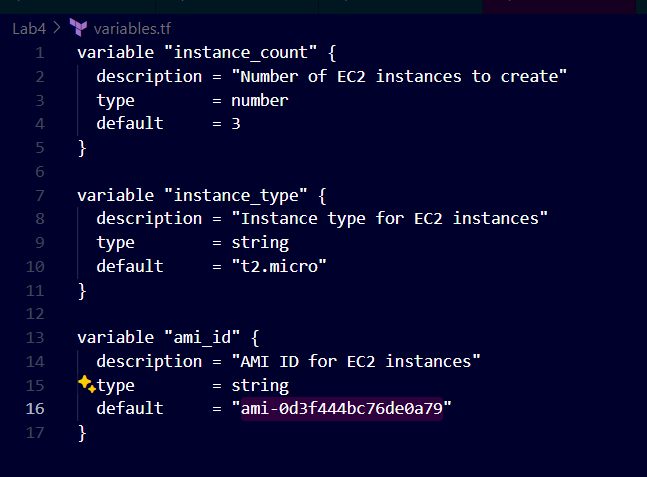
**Aim : Using Variables in Terraform**

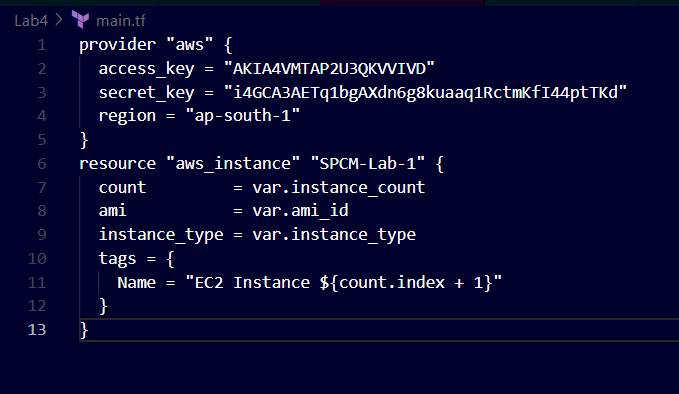
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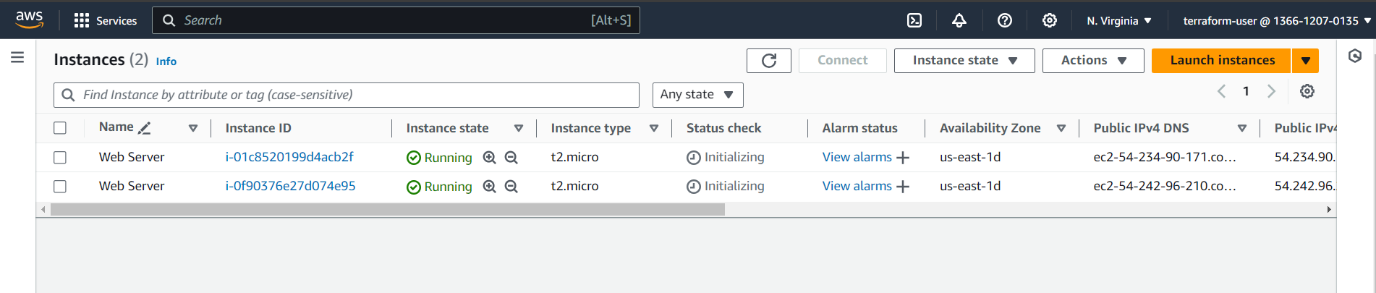
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**Experiment – 6**

**Aim: Create 3 ec2 instances by using variables in Terraform.**

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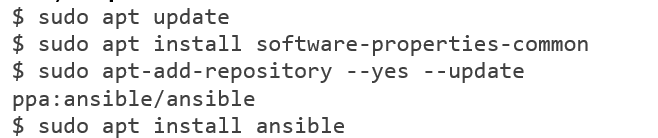
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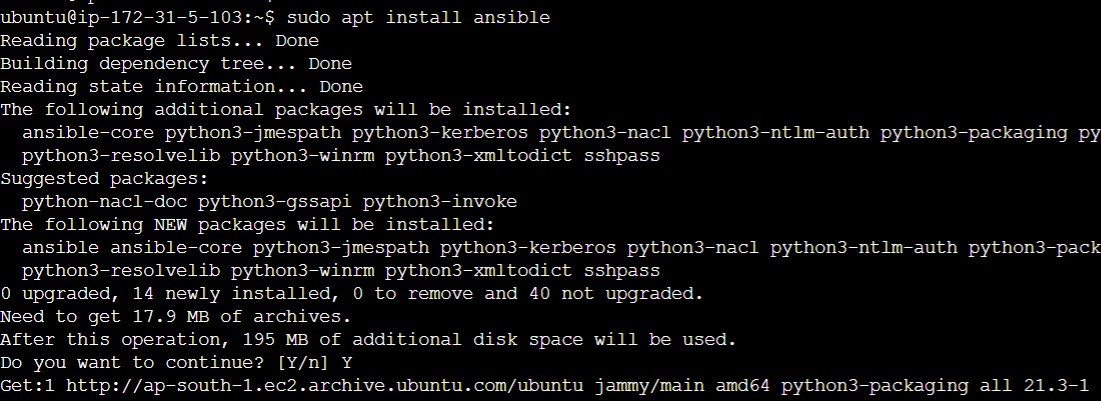
**Experiment – 7**

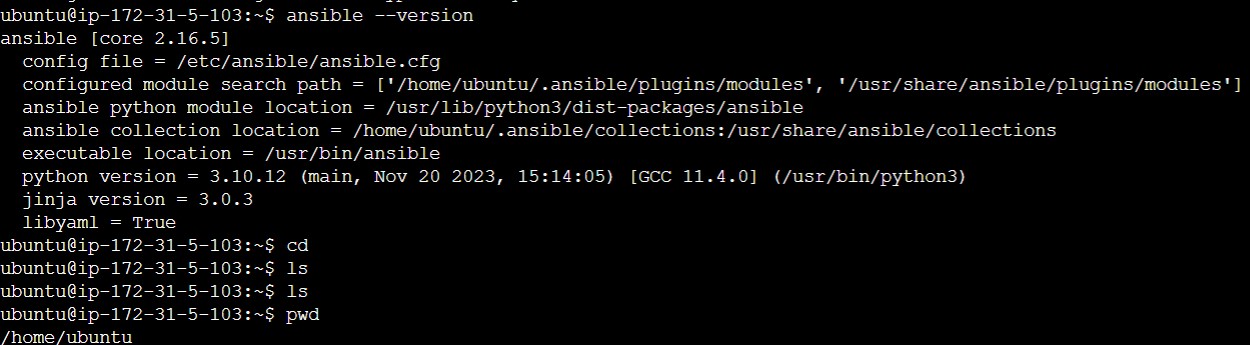
**Aim:** Ansible installation and basic programs

* **Write the steps for setting up the ansible.**
* **Write an ansible playbook to print “Hello World” using yaml.**
* **Write an ansible playbook to perform shell command using yaml.**
* **Write an ansible playbook to declare the variable using yaml.**

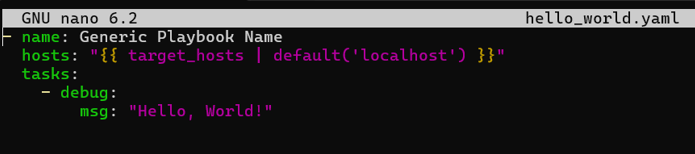
1. **Steps for installation of Ansible**

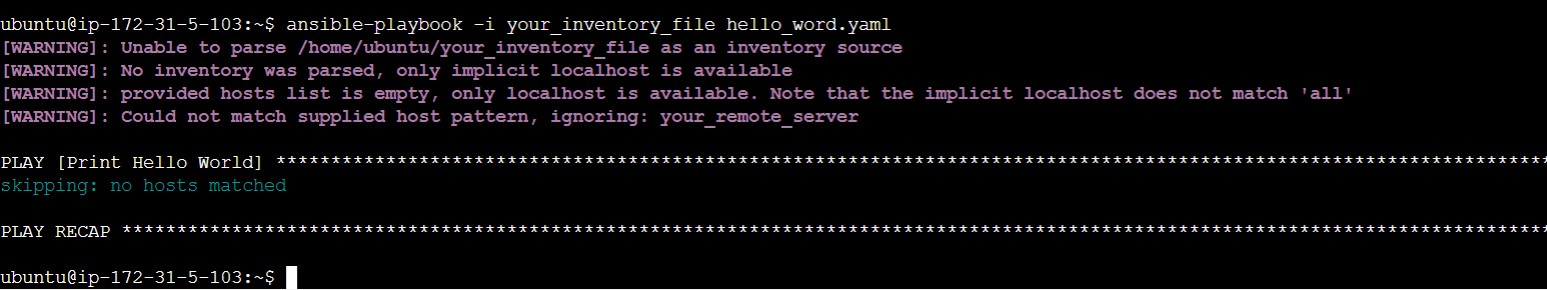
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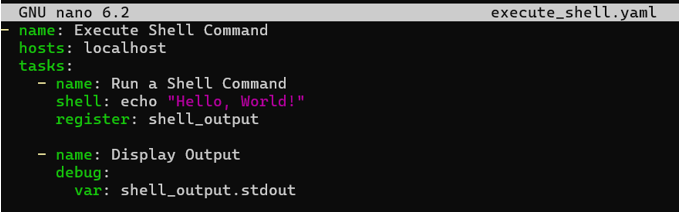


**Print Hello World**

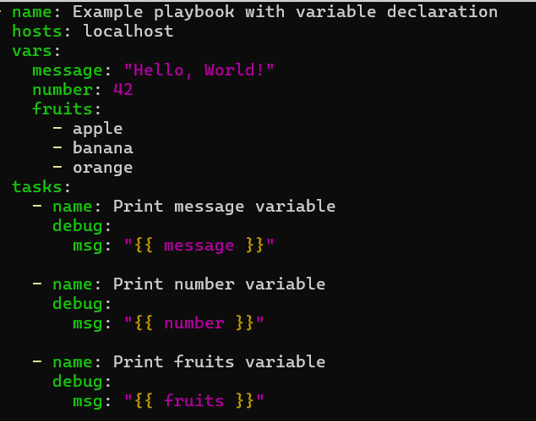
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**Execute shell command**

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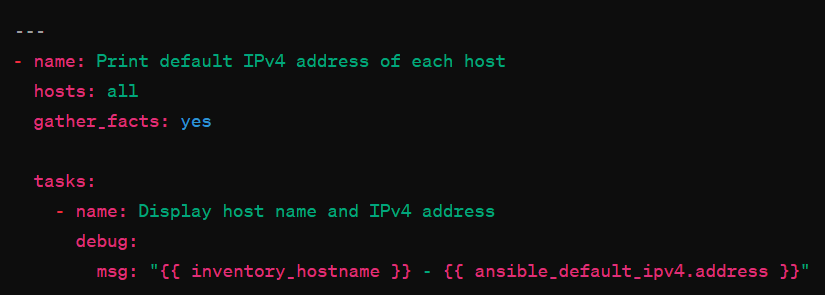
**Declare the variable**

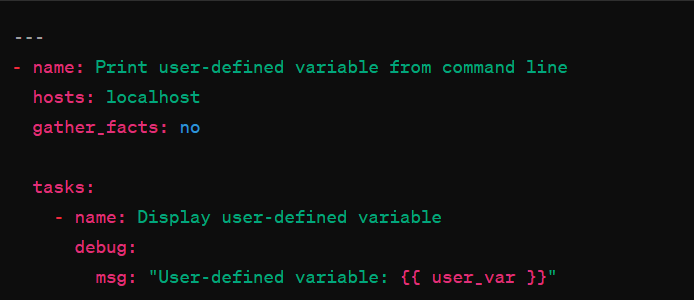
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**Experiment- 8**

**AIM:**

* **Write an ansible playbook to print the default ipv4 address of each host along with host name.**
* **Write an ansible playbook to print the user-defined variable from command line.**
* **Write an ansible playbook to pass multiple variables from command line.**
* **Write an ansible playbook to show the working of loops.**

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ansible-playbook -i localhost, print\_user\_variable.yml -e "user\_var=my\_variable"

