Que 1 →

- Create one IAM user and one IAM Group using Terraform.
- Make sure you will use variables for names of IAM users and Group.
- Note :- Below files are required.
  - main.tf
  - variables.tf
  - your_name_custom.tfvars

Que 2 →

- Create one EC2 Instance and Elastic IP using Terraform and Map elastic IP with EC2 instance.
- Also please make sure you will use a combination of both variables in the main.tf file.
  - i.e. local and variable from variables.tf and custom.tfvars file.
- Also use output values to print EC2 instances Public DNS name , Private DNS name , Private IP and Public IP.
- Note :-
  - Here you will require one locals in the main.tf file.
  - Also four output values in the main.tf file.

Que 3 →

- Create AWS VPC with Terraform.
- Please follow the given link for more on AWS VPC creation.

    1. Create a VPC
    2. Create 2 Public Subnet & Create 2 Private Subnet
    3. Create IGW (Internet Gateway) & Attach to the VPC
    4. Create Public and Private Route Table
    5. Add IGW in Public Route table (0.0.0.0/0)
    6. Add Public Subnet (1a & 1b) in Route table
    7. Create a NAT Gateway in Public Subnet
    8. Add NAT GW into the Private Route Table
    9. Add Private Subnet in Private Route Table

- Link :-
    - *https://varunmanik1.medium.com/how-to-create-aws-vpc-in-10-steps-less-than-5-min-a49ac12064aa*
- Note :-
    - Try to create VPC manually to understand the concepts and then go for Terraform automation.

Que 4 →

- Create EC2 instance one of the public Subnets of VPC that you have created & Validate your Connection using ssh.

- For this You need to create below AWS resources using Terraform.

    1. EC2 Instance.
    2. SSH Key
    3. Security Group.

- Note :-
    - Attach SSH key and Security Group to EC2 Instance using attribute reference.
    - Then try to access it from an EC2 instance using the SSH key that you have created.