1. Write a shell program to find if the inputted year is leap or not.(10 Marks)

```
root@NSPL-LAPTOP:/home/Linux exam# touch leap.sh
root@NSPL-LAPTOP:/home/Linux exam# vim leap.sh
root@NSPL-LAPTOP:/home/Linux_exam# cat leap.sh
#!/bin/bash
# Question 1
echo "Please enter year: "
read year
if [[ ($((year % 100)) -eq 0 ) && ($((year % 400)) -eq 0 ) || ($((year % 4)) -eq 0 ) ]]
    echo "The entered year $year is leap year."
else
    echo "The entered year $year is not a leap year."
fi
root@NSPL-LAPTOP:/home/Linux_exam# bash leap.sh
Please enter year:
2000
The entered year 2000 is leap year.
root@NSPL-LAPTOP:/home/Linux_exam# bash leap.sh
Please enter year:
2022
The entered year 2022 is not a leap year.
```

2. Write a shell program to find the greatest number of given 3 numbers.(10 Marks)

```
root@NSPL-LAPTOP:/home/Linux exam# touch largest number.sh
root@NSPL-LAPTOP:/home/Linux_exam# vim largest_number.sh
root@NSPL-LAPTOP:/home/Linux exam# cat largest number.sh
#!/bin/bash
a = 30
b = 20
c = 10
num1=$a
num2=$b
num3=$c
if [[ $num1 -gt $um2 ]] && [[ $num1 -gt $um3 ]]
    echo "The 1st_number $num1 is largest."
elif [[ $num2 -gt $um1 ]] && [[ $num2 -gt $um3 ]]
then
    echo "The 2nd_number $num2 is largest."
else
    echo "The 3rd number $num3 is largest."
fi
root@NSPL-LAPTOP:/home/Linux exam# bash largest number.sh
The 1st number 30 is largest.
root@NSPL-LAPTOP:/home/Linux exam# cat largest number.sh
#!/bin/bash
#Q.2 Write a shell program to find the greatest number of given 3 numbers (10 Mark)
echo "Enter 1st number: "
read num1
echo "Enter 2nd number: "
read num2
echo "Enter 3rd number: "
read num3
if [[ $num1 -gt $um2 ]] && [[ $num1 -gt $um3 ]]
then
    echo "The 1st number $num1 is largest."
elif [[ $num2 -gt $um1 ]] && [[ $num2 -gt $um3 ]]
then
    echo "The 2nd number $num2 is largest."
else
```

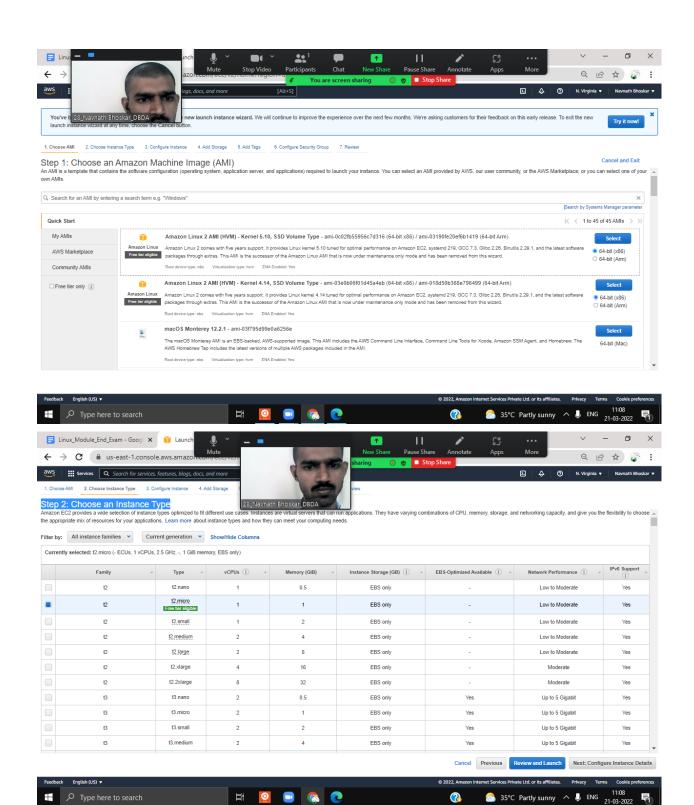
```
echo "The 3rd_number $num3 is largest."

fi

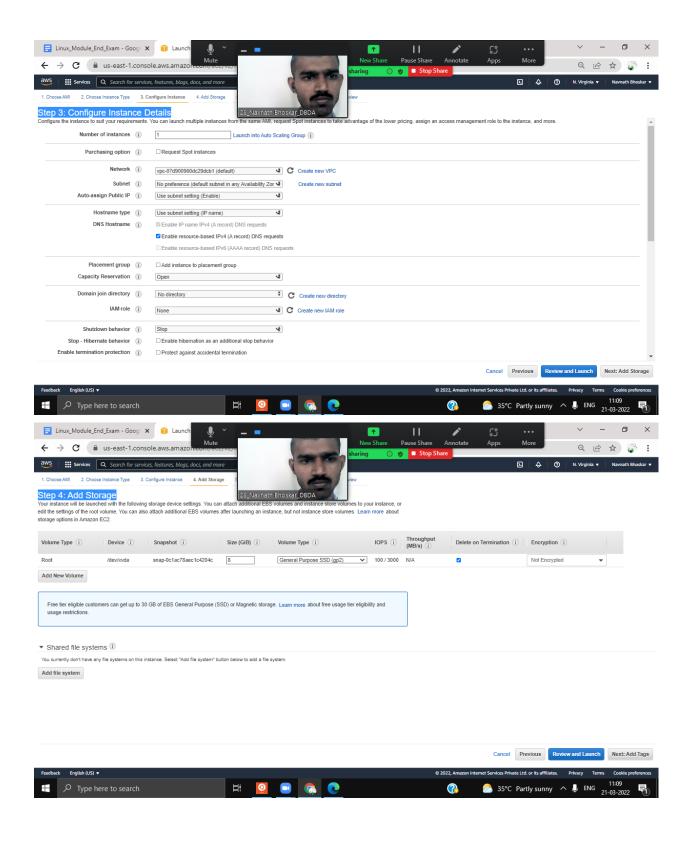
root@NSPL-LAPTOP:/home/Linux_exam# bash largest_number.sh
Enter 1st number:
30
Enter 2nd number:
20
Enter 3rd number:
10
The 1st_number 30 is largest.
```

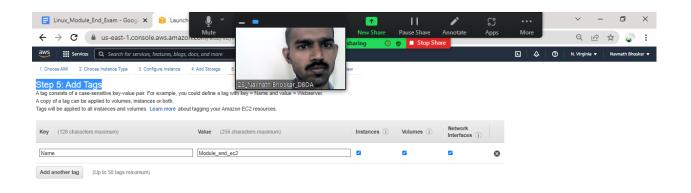
3. Create a Linux EC2 and access the EC2 through putty on your system using .pem file (20 Marks)

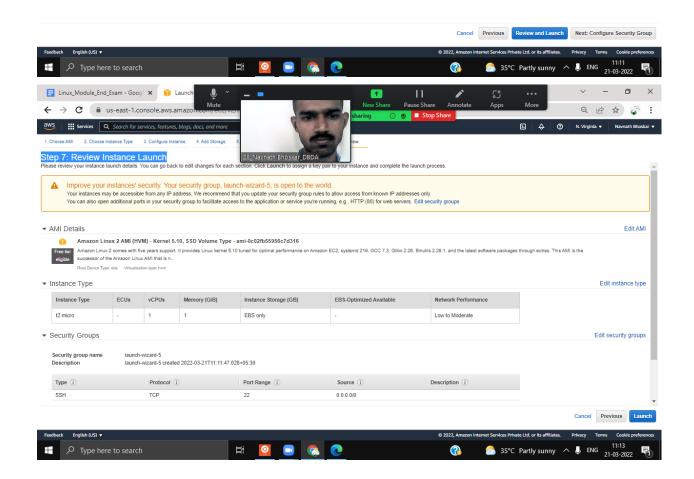
Step 1: Choose an Amazon Machine Image (AMI)

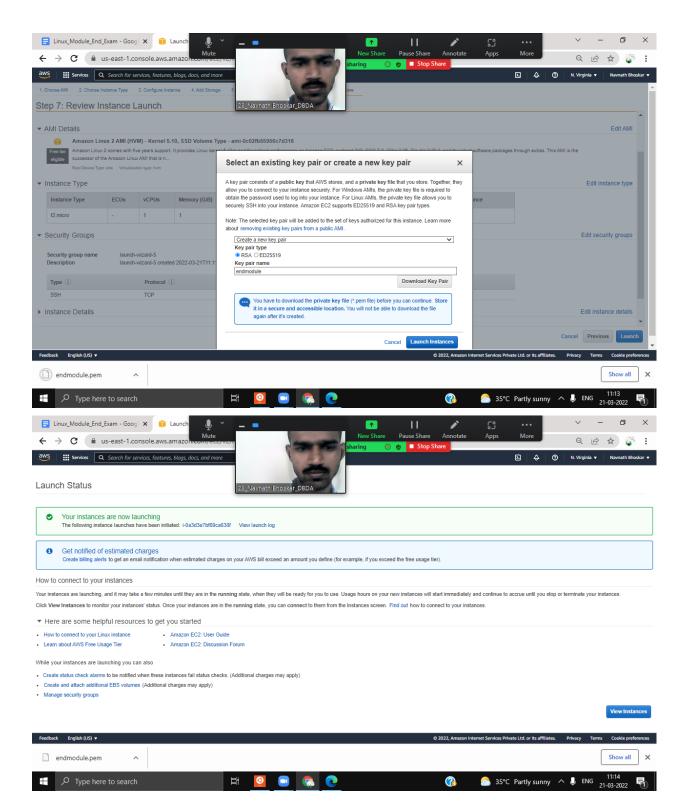


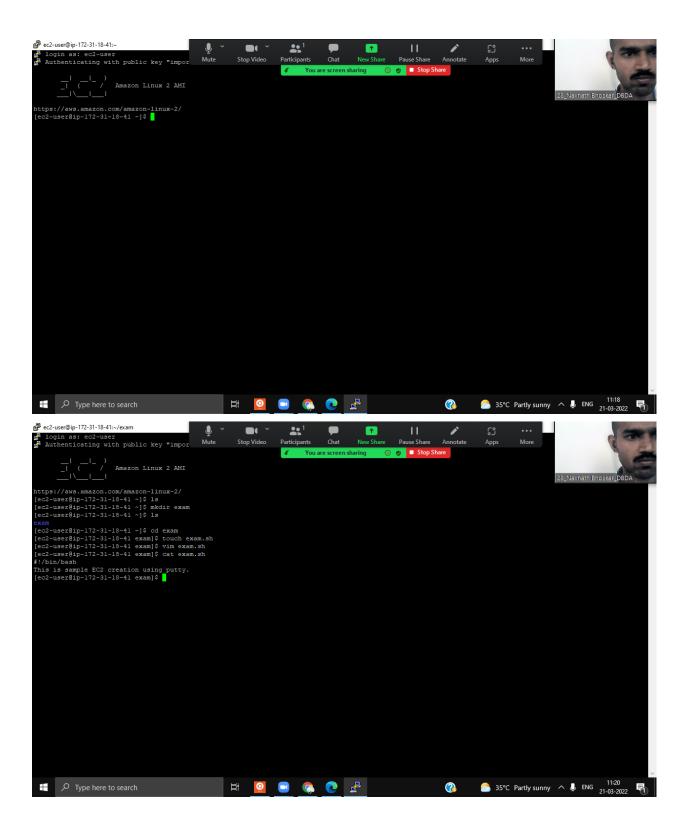
?

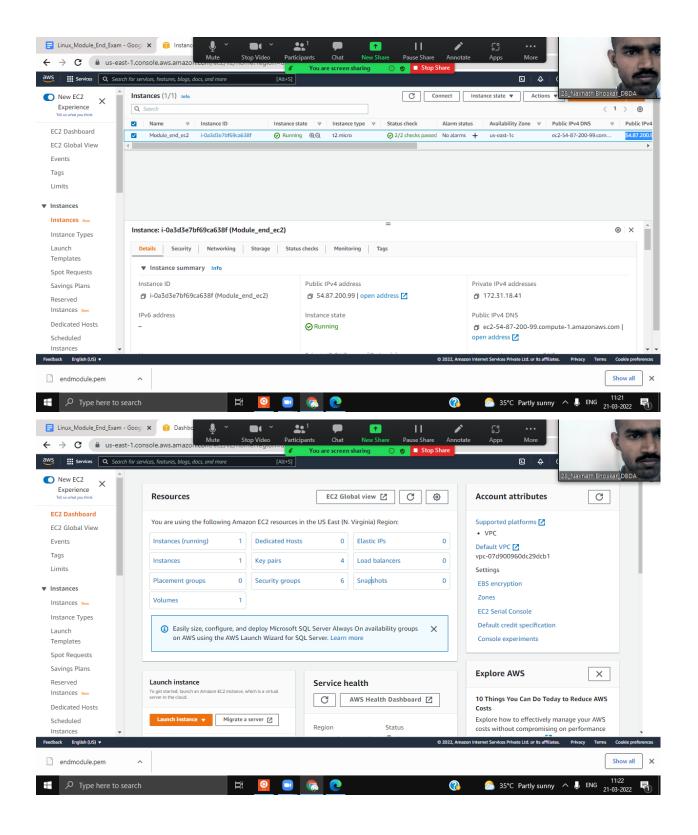












Step 2: Choose an Instance Type

Step 3: Configure Instance Details

Step 4: Add Storage

Step 5: Add Tags

Step 6: Configure Security Group

Step 7: Review Instance Launch

login as: ec2-user
Authenticating with public key "imported-openssh-key"



https://aws.amazon.com/amazon-linux-2/

[ec2-user@ip-172-31-18-41 ~]\$ ls

[ec2-user@ip-172-31-18-41 ~]\$ mkdir exam

[ec2-user@ip-172-31-18-41 ~]\$ Is

exam

[ec2-user@ip-172-31-18-41 ~]\$ cd exam

[ec2-user@ip-172-31-18-41 exam]\$ touch exam.sh

[ec2-user@ip-172-31-18-41 exam]\$ vim exam.sh

[ec2-user@ip-172-31-18-41 exam]\$ cat exam.sh

#!/bin/bash

This is sample EC2 creation using putty.

[ec2-user@ip-172-31-18-41 exam]\$