**1.A Python script which uses boto AWS SDK to launch an ec2 instance (linux ami).**

\***Install python**

Apt-get install python \* -y

\***Install Pycharm in Ubuntu**

sh -c 'echo "deb <http://archive.getdeb.net/ubuntu> yakkety-getdeb apps" >> /etc/apt/sources.list.d/getdeb.list'

 wget -q -O - <http://archive.getdeb.net/getdeb-archive.key> | sudo apt-key add –

 sudo apt update

sudo apt install pycharm

\*Install the Boto 3

pip install boto3

\*Vi script.py

import boto3

#Connect to Mumbai EC2 region

ec2 = boto3.resource('ec2', region\_name="ap-south-la”)

#Create key\_pair and save private key to pem file

outfile = open('ChefKey.pem','w')

key\_pair = ec2.create\_key\_pair(KeyName='ChefKey')

KeyPairOut = str(key\_pair.key\_material)

outfile.write(KeyPairOut)

#Create 5 Instances

instances = ec2.create\_instances(

ImageId=' ami-c2ee9dad',

MinCount=1,

MaxCount=5,

KeyName="ChefKey",

InstanceType="t2.micro"

)

for instance in instances:

print(instance.id, instance.instance\_type)