[1 2
3 4]
Perform following operations- i. read data from an excel/csv file ii. compute Y = 3*X now with NumPy and iii. store the output in a new excel file
Code:
(i)
#importing pandas module
import pandas as pd
#reading data from excel file
X=pd.read_excel('C:\Users\IBM_ADMIN\Desktop\input.xlsx')
print(X)
(ii)
#importing numpy module
import numpy as np
mulvalue = np.array(3)
Y = mulvalue*X
print(Y)

Question 1: Consider a file with the following matrix X:

```
(iii)
df = pd.dataframe(Y)
writer = pd.Excelwriter('new_file.xlsx')
df.to_excel(writer)
writer.save()
Question 2: Write code for extracting news of a url (http://fox13now.com/2013/12/30/new-year-new-
<u>laws-obamacare-pot-guns-and-drones/</u>) and summarize the news
Code:
#importing urllib module, bs4
```

my_url = "http://fox13now.com/2013/12/30/new-year-new-laws-obamacare-

import urllib.request

pot-guns-and-drones"

open a connection to a url

#status code

from bs4 import BeautifulSoup

weburl = urllib.request.urlopen(my_url)

print("result code: " + str(weburl.getcode()))

```
#reading html data
data = webrul.read()
print(data)

soup = BeautifulSoup(data, 'html.parser')
#title of the page
title = soup.title
print(title)
#to extract html tags with in the web page
print(soup.find_all('a'))
# Grabs some part of text data for validating by inspecting webpage
content = soup.find('div', attrs ={'class': 'p402_premium'})
print(content)
```

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3) Question 3: Create a Django program to extract tweets for last month for handle '@BCCI' (create
user id /Token etc., as required)
import json
import tweepy
import csv
# creating a dictionary to store twitter credentials
twitter cred = dict()
#Inputting own consumer key, consumer secret, access key and
access secret
twitter cred['CONSUMER KEY'] = 'XhNoxhkmvm281LtvCNC8X2OmV'
twitter cred['CONSUMER SECRET']'uljJaxe1UabXqx4l2aL5ocURT24cbcoQhxWUYO
HbjvWwcTu9WG'
twitter cred['ACCESS KEY'] = '1075754716687040512-
WIgyPOwthfPDI4tfx1Hcy4eqHI3YpP '
twitter cred['ACCESS SECRET'] =
'1up2kr158GwhfkVhLJE84PHhNkU3LwS9rduxLziXZ21Aq'
# Saving the information to a json
with open('twitter credentials.json', 'w') as secret info:
    json.dump(twitter cred, secret info, indent=4,
sort keys=True)
# load Twitter API credentials
with open('twitter credentials.json') as cred data:
    info = json.load(cred data)
    consumer key = info['CONSUMER KEY']
    consumer secret = info['CONSUMER SECRET']
    access key = info['ACCESS KEY']
    access secret = info['ACCESS SECRET']
```

```
def get all tweets(user name):
    # Authorization
    auth = tweepy.OAuthHandler(consumer key, consumer secret)
    auth.set access token(access_key, access_secret)
    api = tweepy.API(auth)
    # initialization of a list to hold all Tweets
    all the tweets = []
    new tweets = api.user timeline(username, count=300)
    # saving the most recent tweets
    all the tweets.extend(new tweets)
    # transforming tweets into a array that will be used to include in
CSV
    outtweets = [[tweet.id str, tweet.created at,
                 tweet.text.encode('utf-8')] for tweet in
all the tweets]
    # writing to the csv file
    with open(username + ' tweets.csv', 'w', encoding='utf8') as
f:
        writer = csv.writer(f)
        writer.writerow(['id', 'created at', 'text'])
        writer.writerows(outtweets)
if name == ' main ':
    # call the function with twitter account name of an user whose
tweets required - bcci
get all tweets(bcci)
```