#Final code to fetch 7 day's weather forecasting information from IMD for state ASSAM

#Updation of those data to a mysql database

import pandas as pd

from pandas.io import sql

**import pymysql**

**pymysql.install\_as\_MySQLdb()**

**import MySQLdb**

**from sqlalchemy import create\_engine**

import requests

from bs4 import BeautifulSoup

url\_list=['http://14.139.247.11/citywx/city\_weather.php?id=40001','http://14.139.247.11/citywx/city\_weather.php?id=42406', 'http://14.139.247.11/citywx/city\_weather.php?id=42314','http://14.139.247.11/citywx/city\_weather.php?id=42407', 'http://14.139.247.11/citywx/city\_weather.php?id=42420','http://14.139.247.11/citywx/city\_weather.php?id=42410', 'http://14.139.247.11/citywx/city\_weather.php?id=42423','http://14.139.247.11/citywx/city\_weather.php?id=42523', 'http://14.139.247.11/citywx/city\_weather.php?id=42413','http://14.139.247.11/citywx/city\_weather.php?id=42309', 'http://14.139.247.11/citywx/city\_weather.php?id=42619','http://14.139.247.11/citywx/city\_weather.php?id=42415', 'http://14.139.247.11/citywx/city\_weather.php?id=42317']

#City order in urllist {Barpeta,Dhubri,Dibrugarh,Goalpara,Golaghat,Guwahati,Jorhat,Lumding,Mazbat,North Lakhimpur,Silchar,Tezpur,Tinsukia}

while url\_list:

url1=url\_list.pop()

page=requests.get(url1)

soup=BeautifulSoup(page.text, 'html.parser')

table\_only=soup.find\_all('table')

**#FOR CITY NAME**

t1\_data=table\_only[0]

#print (t1\_data.prettify())

t1\_data.prettify()

t1\_rows=t1\_data.find("tr")

#print (t1\_rows)

t1\_column1=t1\_rows.find("img")

img\_name=t1\_column1['alt']

city\_name=[img\_name]

#print (img\_name)# prints output as guwahati

**#FOR FIRST TABLE CONTENTS**

#tr\_txt1=soup.find\_all('tr')[2:11]

tr\_txt1=soup.find\_all('tr')[6:7]

#print (tr\_txt1)

column1=[]

column2=[]

for rw1 in tr\_txt1:

column1.append(rw1.find('td').text.strip())

column2.append(rw1.find\_all('td')[1].text.strip())

**#FOR SECOND TABLE CONTENTS**

c1\_date=[]

c2\_mintemp=[]

c3\_maxtemp=[]

c4\_img=[]

c5\_desc=[]

rowss=soup.find\_all('tr')[13:20]

#print (rowss)

for row in rowss:

columns=row.find\_all('td')[0:]

cols1=columns[0]

c1\_date.append(cols1.text.strip())

cols2=columns[1]

c2\_mintemp.append(cols2.text.strip())

cols3=columns[2]

c3\_maxtemp.append(cols3.text.strip())

cols4=columns[3]

cols4\_img=cols4.find("img")

cols4\_imgname=cols4\_img['src']

c4\_img.append([cols4\_imgname])

columns5=soup.find\_all("td",attrs={"width":"255","align":"center"})

for cols5 in columns5:

c5\_desc.append(cols5.text.strip())

weather1=pd.DataFrame({

"City Name": city\_name

})

#print (weather1)

weather2=pd.DataFrame({

"City Name": city\_name,

"Rainfall Status": column1,

"data": column2

})

#print (weather2)

weather3=pd.DataFrame({

"7 days weather forecasting Info - date:":c1\_date,

"Min temp":c2\_mintemp,

"Max temp":c3\_maxtemp,

"Weather Image":c4\_img,

"Description":c5\_desc

})

#print (weather3)

**engine=create\_engine("mysql+mysqldb://root:Pwd123@127.0.0.1/assamdb")**

if(url1=="http://14.139.247.11/citywx/city\_weather.php?id=40001"):

weather2.to\_sql(name='barpeta\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='barpeta\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from barpeta\_name'),engine))

print(pd.read\_sql(('select \* from barpeta\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42406"):

weather2.to\_sql(name='dhubri\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='dhubri\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from dhubri\_name'),engine))

print(pd.read\_sql(('select \* from dhubri\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42314"):

weather2.to\_sql(name='dibrugarh\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='dibrugarh\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from dibrugarh\_name'),engine))

print(pd.read\_sql(('select \* from dibrugarh\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42407"):

weather2.to\_sql(name='goalpara\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='goalpara\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from goalpara\_name'),engine))

print(pd.read\_sql(('select \* from goalpara\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42420"):

weather2.to\_sql(name='golaghat\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='golaghat\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from golaghat\_name'),engine))

print(pd.read\_sql(('select \* from golaghat\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42410"):

weather2.to\_sql(name='guwahati\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='guwahati\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from guwahati\_name'),engine))

print(pd.read\_sql(('select \* from guwahati\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42423"):

weather2.to\_sql(name='jorhat\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='jorhat\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from jorhat\_name'),engine))

print(pd.read\_sql(('select \* from jorhat\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42523"):

weather2.to\_sql(name='lumding\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='lumding\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from lumding\_name'),engine))

print(pd.read\_sql(('select \* from lumding\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42413"):

weather2.to\_sql(name='mazbat\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='mazbat\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from mazbat\_name'),engine))

print(pd.read\_sql(('select \* from mazbat\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42309"):

weather2.to\_sql(name='northlakhimpur\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='northlakhimpur\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from northlakhimpur\_name'),engine))

print(pd.read\_sql(('select \* from northlakhimpur\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42619"):

weather2.to\_sql(name='silchar\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='silchar\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from silchar\_name'),engine))

print(pd.read\_sql(('select \* from silchar\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42415"):

weather2.to\_sql(name='tezpur\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='tezpur\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from tezpur\_name'),engine))

print(pd.read\_sql(('select \* from tezpur\_weather'),engine))

elif(url1=="http://14.139.247.11/citywx/city\_weather.php?id=42317"):

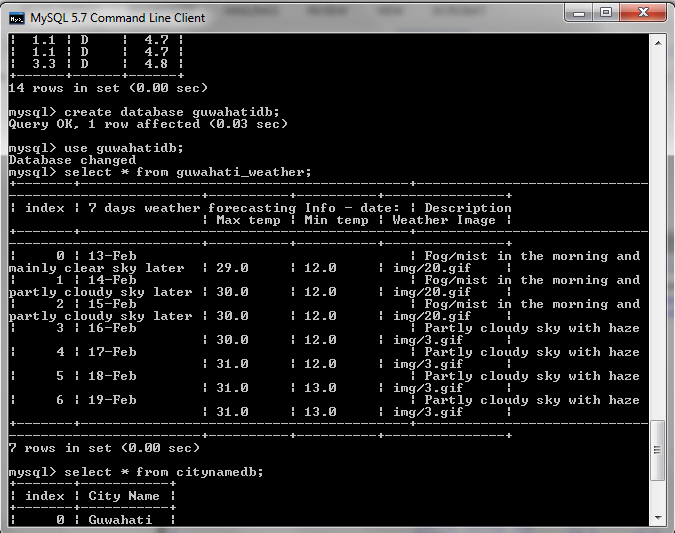
weather2.to\_sql(name='tinsukia\_name',con=engine, if\_exists='replace', index=True)

weather3.to\_sql(name='tinsukia\_weather',con=engine, if\_exists='replace', index=True)

print(pd.read\_sql(('select \* from tinsukia\_name'),engine))

print(pd.read\_sql(('select \* from tinsukia\_weather'),engine))

**Output- Mysql**



**Output -Python**

