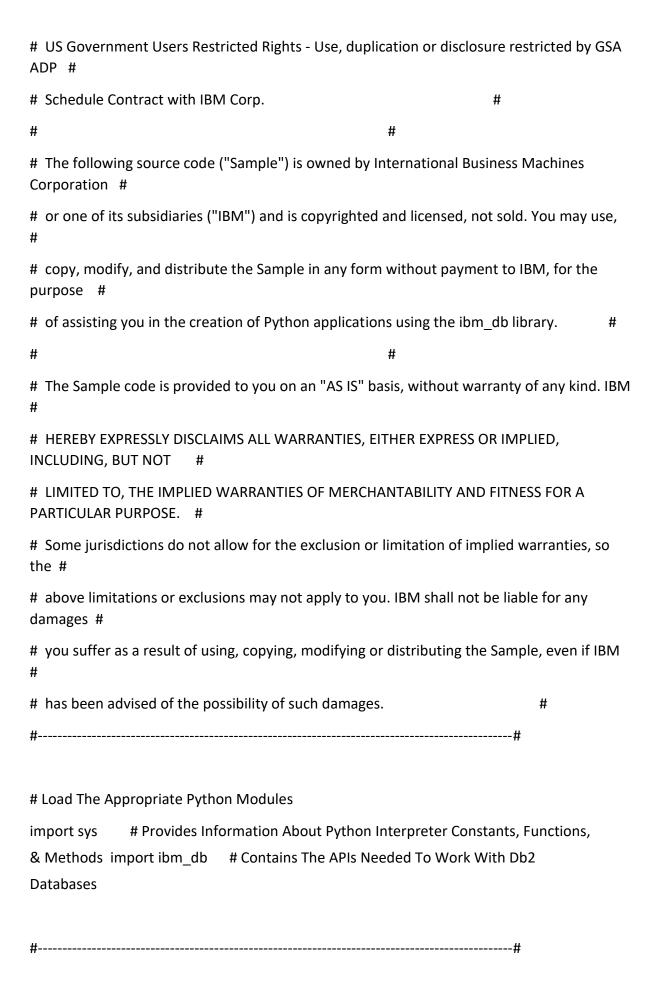
IMPLEMENTING WEB APPLICATION

Project Date	September 2022	
Team ID	PNT2022TMID13786	
Project Name	Containment zone alerting application	

Create IBM DB2 And Connect With Python Code:

#	! /usr/bin/python3			
#-			# #	
N	AME: ibm_db-connect_SERVER.py		#	
#		#		
# #	PURPOSE: This program is designed to illustrate how	w to use	the ibm_db.connect() AP	'l to
#	establish a connection to a Db2 server.		#	
#		#		
#	Additional APIs used:		#	
#	ibm_db.close()		#	
#		#		
# #	USAGE: Log in as a Db2 database instance user (fo	r examp	le, db2inst1) and issue the	е
#	following command from a terminal window:		#	
#		#		
#	./ibm_db-connect_SERVER.py		#	
#		#		
#-			#	
#	DISCLAIMER OF WARRANTIES AND LIMIT	ATION (OF LIABILITY #	ŧ
#		#		
#	(C) COPYRIGHT International Business Machines Cor	p. 2018	, 2019 All Rights Reserved	l
#	Licensed Materials - Property of IBM		#	
#		#		



```
In The #
# File Named "ipynb_exit.py"; This Class Contains The Programming Logic Needed To Allow
# Functionality To Work Without Raising An Error Or Stopping The Kernel If The Application
                                                                # #-----
# Invoked In A Jupyter Notebook
from ipynb exit import exit
# Define And Initialize The Appropriate Variables hostName =
"197.126.80.22" # IP Address Of Remote Server portNum = "50000"
                                                                      # Port
Number That Receives Db2 Connections On The Remote
Server userID = "db2inst2"
                              # The Instance User ID At The Remote Server passWord =
"ibmdb2"
              # The Password For The Instance User ID At The Remote Server
connectionID = None
# Display A Status Message Indicating An Attempt To Establish A Connection To A Db2
Server
# Is About To Be Made print("\nConnecting to the \"" + hostName
+ "\' server ... ", end="")
# Construct The String That Will Be Used To Establish A Db2 Server Connection connString
= "DRIVER={IBM DB2 ODBC DRIVER}"
connString += ";ATTACH=TRUE" # Attach To A Server; Not A Database
connString += ";DATABASE=" # Ignored When Connecting To A Server
connString += ";HOSTNAME=" + hostName # Required To Connect To A Server
connString += ";PORT=" + portNum # Required To Connect To A Server connString
+= ";PROTOCOL=TCPIP" # Required To Connect To A Server connString +=
";UID=" + userID connString += ";PWD=" + passWord
```

Import The ipynb exit Class Definition, Attributes, And Methods That Have Been Defined

```
# Attempt To Establish A Connection To The Server Specified
try:
  connectionID = ibm_db.connect(connString, ", ") except
Exception:
  pass
# If A Db2 Server Connection Could Not Be Established, Display An Error Message And Exit
if connectionID is None:
  print("\nERROR: Unable to connect to the \'" + hostName + "\' server.")
print("Connection string used: " + connString + "\n")
  exit(-1)
# Otherwise, Complete The Status Message
else:
  print("Done!\n")
# Add Additional Db2 Server-Related Processing Here ...
# For Example, ibm db.createdb(), ibm db.createdbNX(), ibm db.recreatedb(),
ibm_db.dropdb()
# Attempt To Close The Db2 Server Connection That Was Just Opened if not
connectionID is None:
  print("Disconnecting from the \" + hostName + "\' server ... ", end="")
  try:
    returnCode = ibm_db.close(connectionID) except
Exception:
    pass
  # If The Db2 Server Connection Was Not Closed, Display An Error Message And Exit
  if returnCode is False:
```

```
print("\nERROR: Unable to disconnect from the " + hostName + " server.")
  exit(-1)

# Otherwise, Complete The Status Message
  else:
    print("Done!\n")

# Return Control To The Operating System
  exit()
```