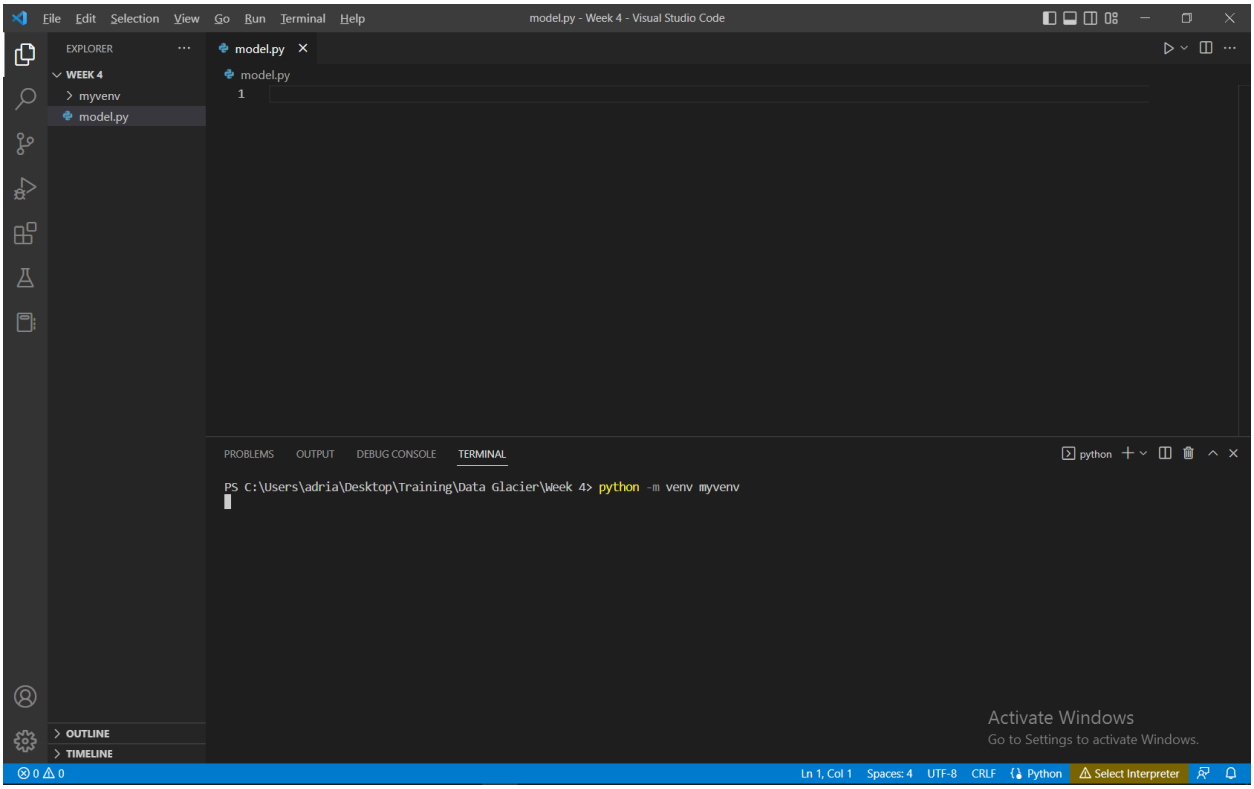
Name: Adrian Baysa

Batch Code: LISUM16

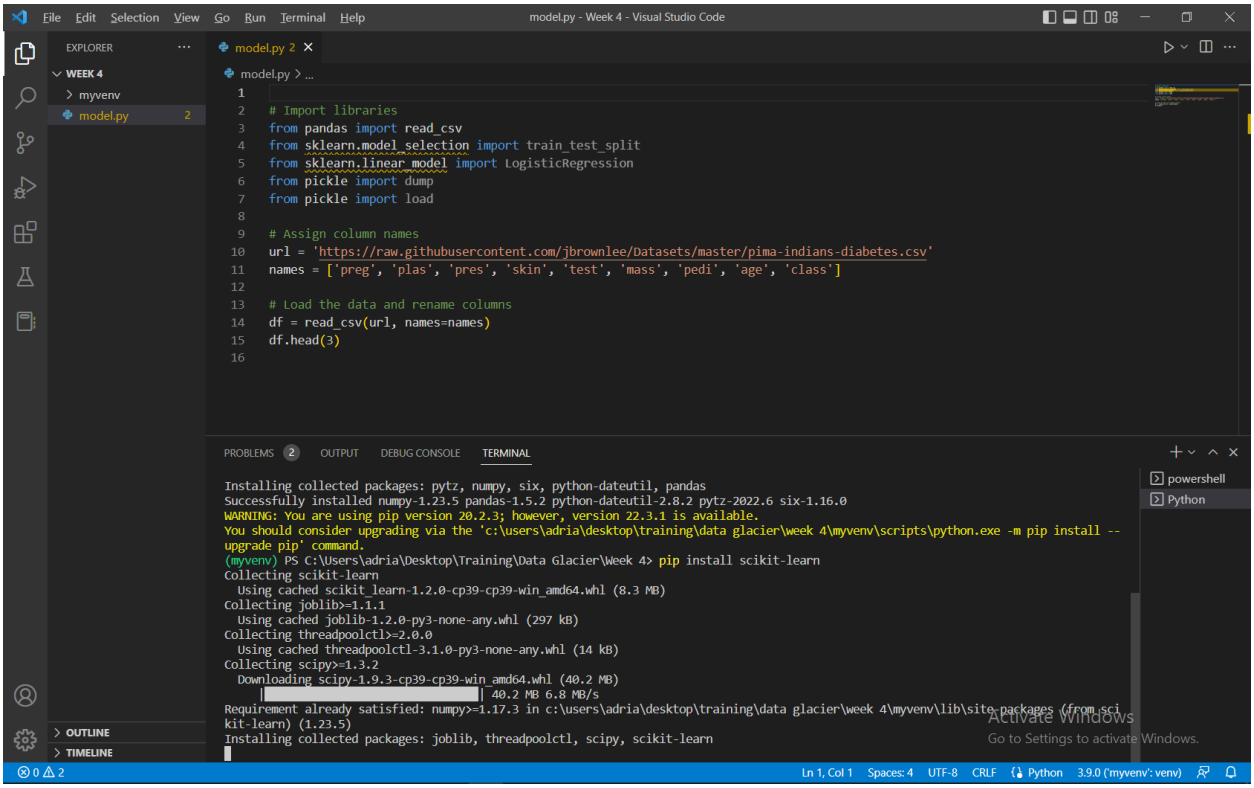
Submission Date: 13 December 2022

Submitted to: n/a

Create environment

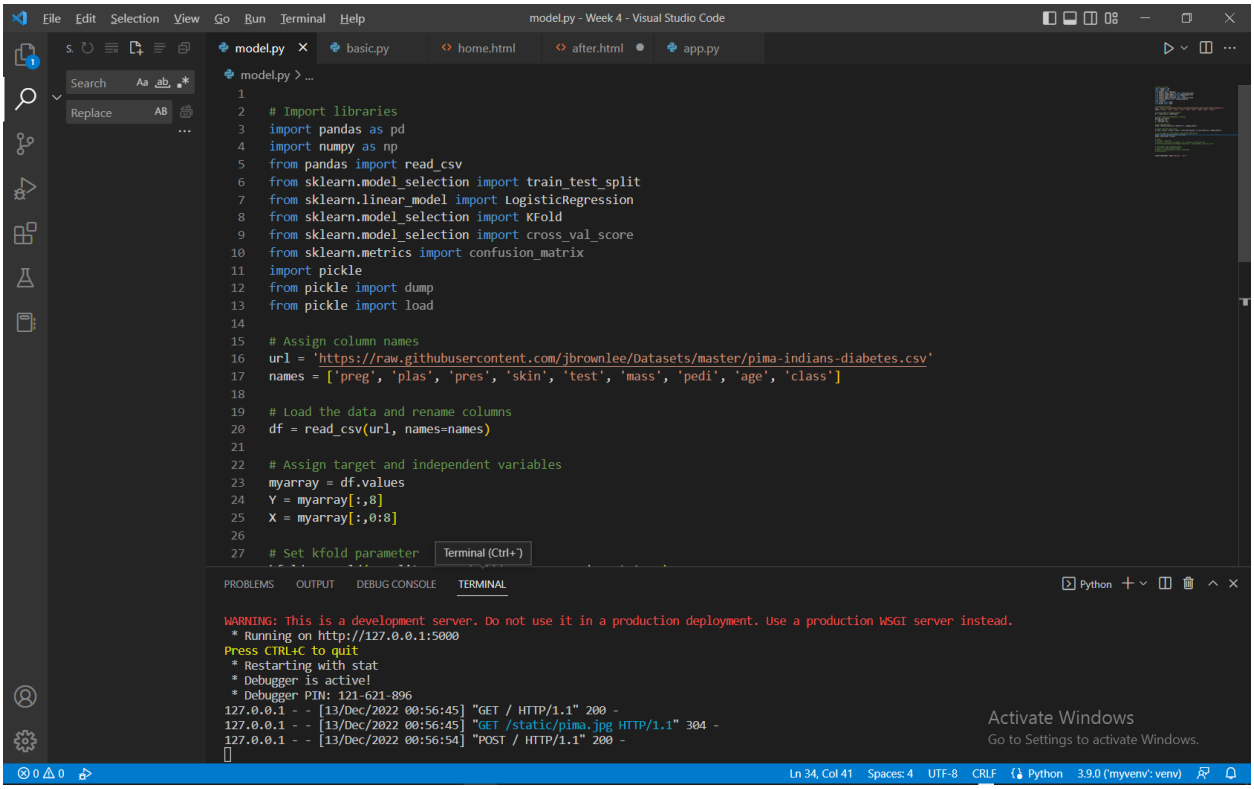


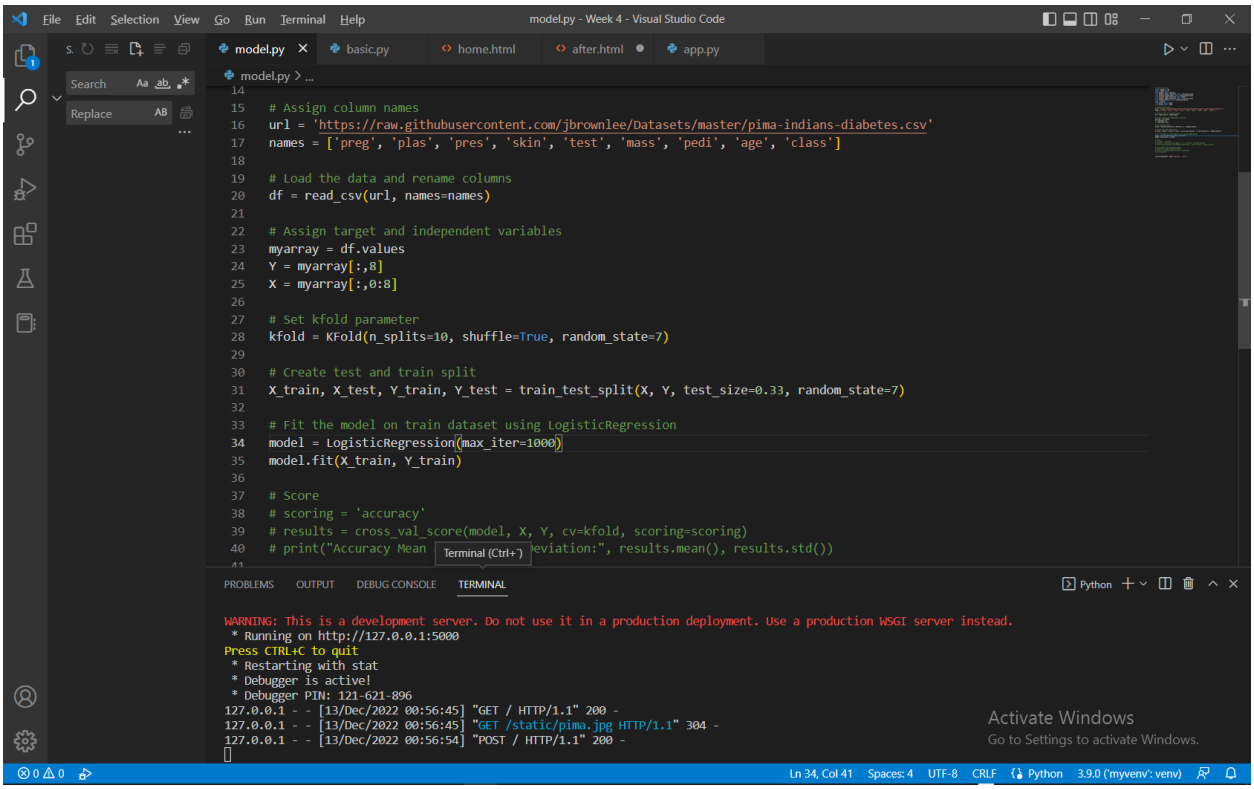
Install libraries

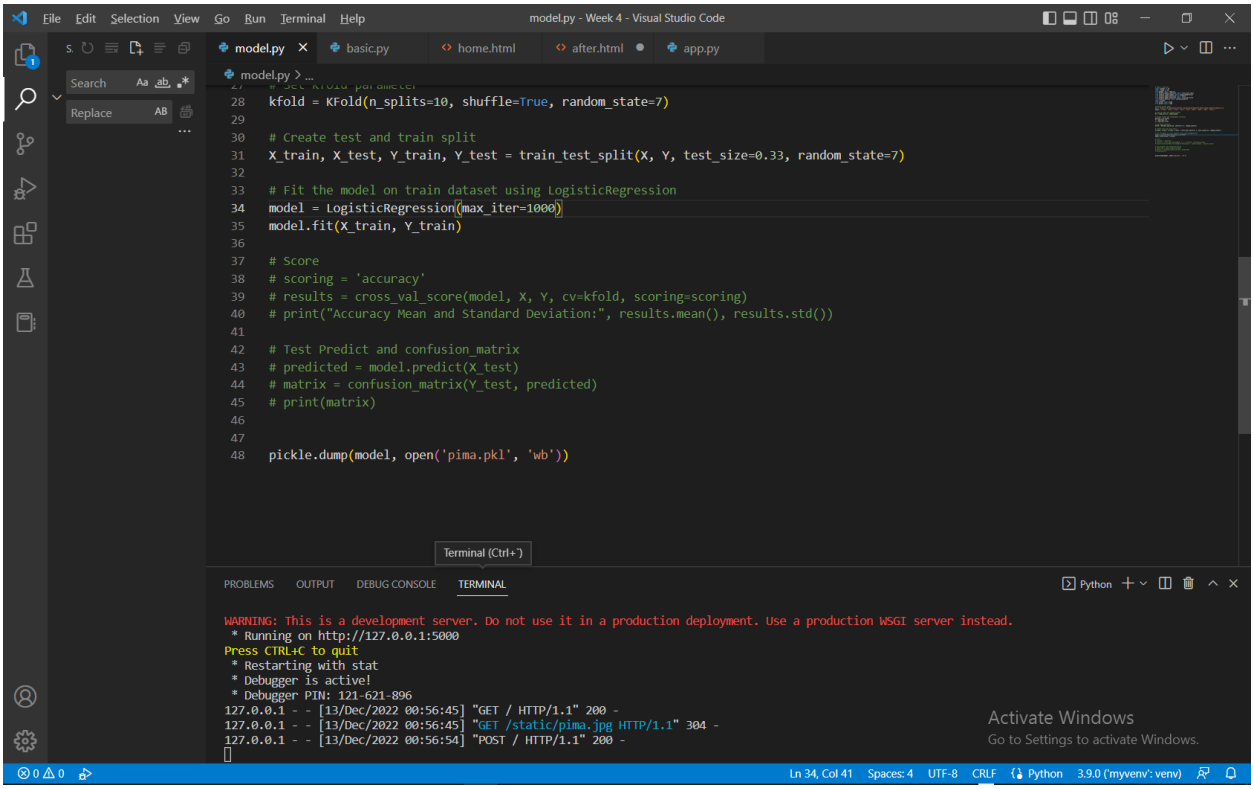


Create Model:

- Import libraries
- Download the dataset
- Identify X and y (target variable)
- Set kfold parameter
- Create train and test data
- Fit the model (Logistic Regression)
- Dump the model as a pickle file




File Edit Selection View Go Run Terminal Help
model.py - Week 4 - Visual Studio Code
model.py
basic.py
home.html
after.html
app.py
Search
Replace
model.py > ...
# Assign column names
url = 'https://raw.githubusercontent.com/jbrownlee/Datasets/master/pima-indians-diabetes.csv'
names = ['preg', 'plas', 'pres', 'skin', 'test', 'mass', 'pedi', 'age', 'class']
# Load the data and rename columns
df = read_csv(url, names=names)
# Assign target and independent variables
myarray = df.values
Y = myarray[:,8]
X = myarray[:,0:8]
# Set kfold parameter
kfold = KFold(n_splits=10, shuffle=True, random_state=7)
# Create test and train split
X_train, X_test, Y_train, Y_test = train_test_split(X, Y, test_size=0.33, random_state=7)
# Fit the model on train dataset using LogisticRegression
model = LogisticRegression(max_iter=1000)
model.fit(X_train, Y_train)
# Score
# scoring = 'accuracy'
# results = cross_val_score(model, X, Y, cv=kfold, scoring=scoring)
# print("Accuracy Mean
eviation:", results.mean(), results.std())
Terminal (Ctrl+`)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 121-621-896
127.0.0.1 - - [13/Dec/2022 00:56:45] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [13/Dec/2022 00:56:45] "GET /static/pima.jpg HTTP/1.1" 304 -
127.0.0.1 - - [13/Dec/2022 00:56:54] "POST / HTTP/1.1" 200 -
Activate Windows
Go to Settings to activate Windows.
Ln 34, Col 41 Spaces: 4 UTF-8 CRLF Python 3.9.0 ('myvenv': venv)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model.py
basic.py
home.html
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model.py > ...
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model.fit(X_train, Y_train)
# Score
# scoring = 'accuracy'
# results = cross_val_score(model, X, Y, cv=kfold, scoring=scoring)
# print("Accuracy Mean and Standard Deviation:", results.mean(), results.std())
# Test Predict and confusion_matrix
# predicted = model.predict(X_test)
# matrix = confusion_matrix(Y_test, predicted)
# print(matrix)
pickle.dump(model, open('pima.pkl', 'wb'))
Terminal (Ctrl+`)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
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127.0.0.1 - - [13/Dec/2022 00:56:45] "GET / HTTP/1.1" 200 -
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127.0.0.1 - - [13/Dec/2022 00:56:54] "POST / HTTP/1.1" 200 -
Activate Windows
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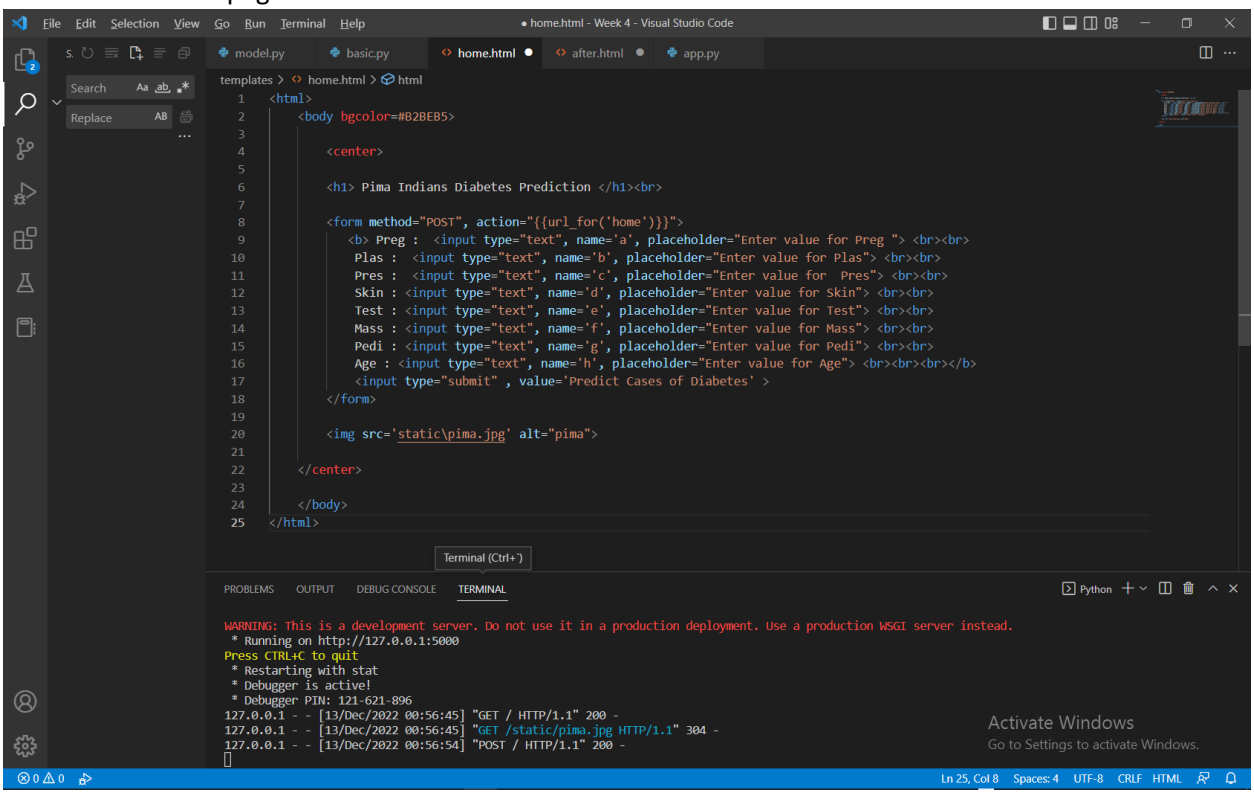
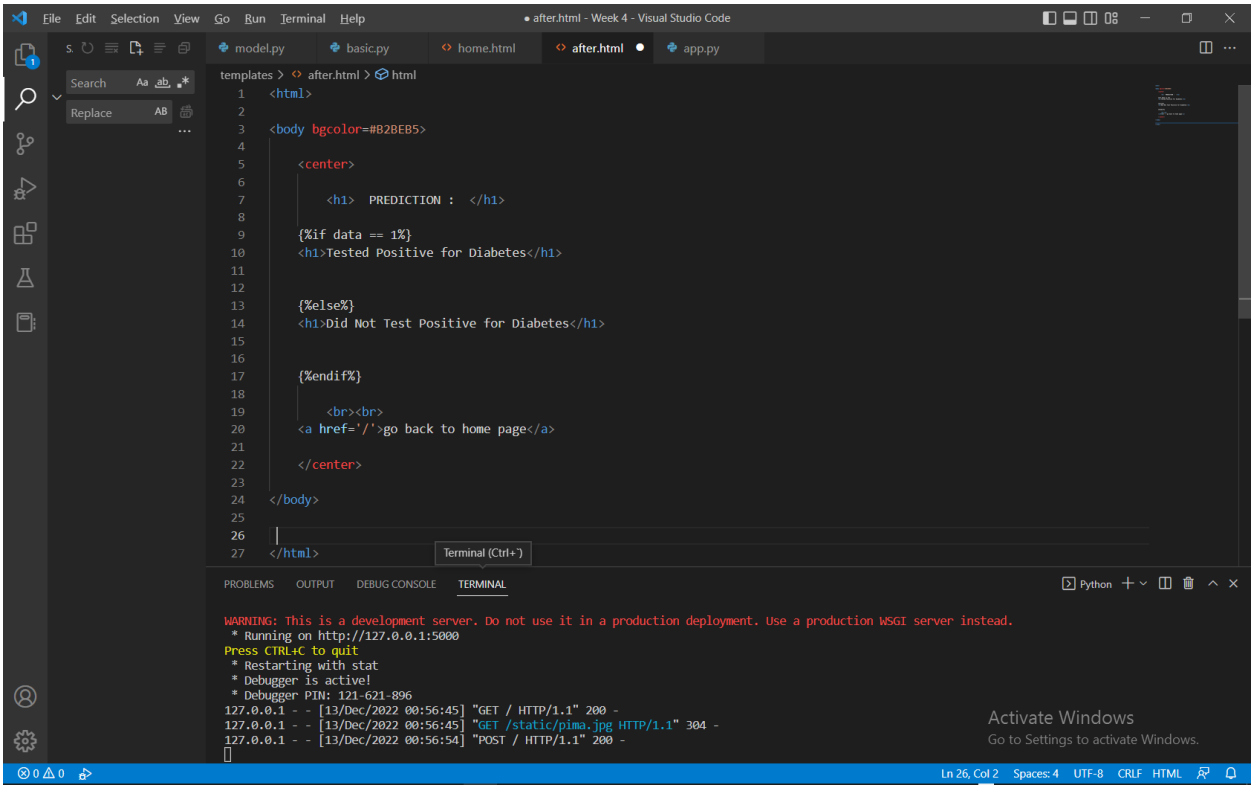
Ln 34, Col 41 Spaces: 4 UTF-8 CRLF Python 3.9.0 ('myvenv': venv)

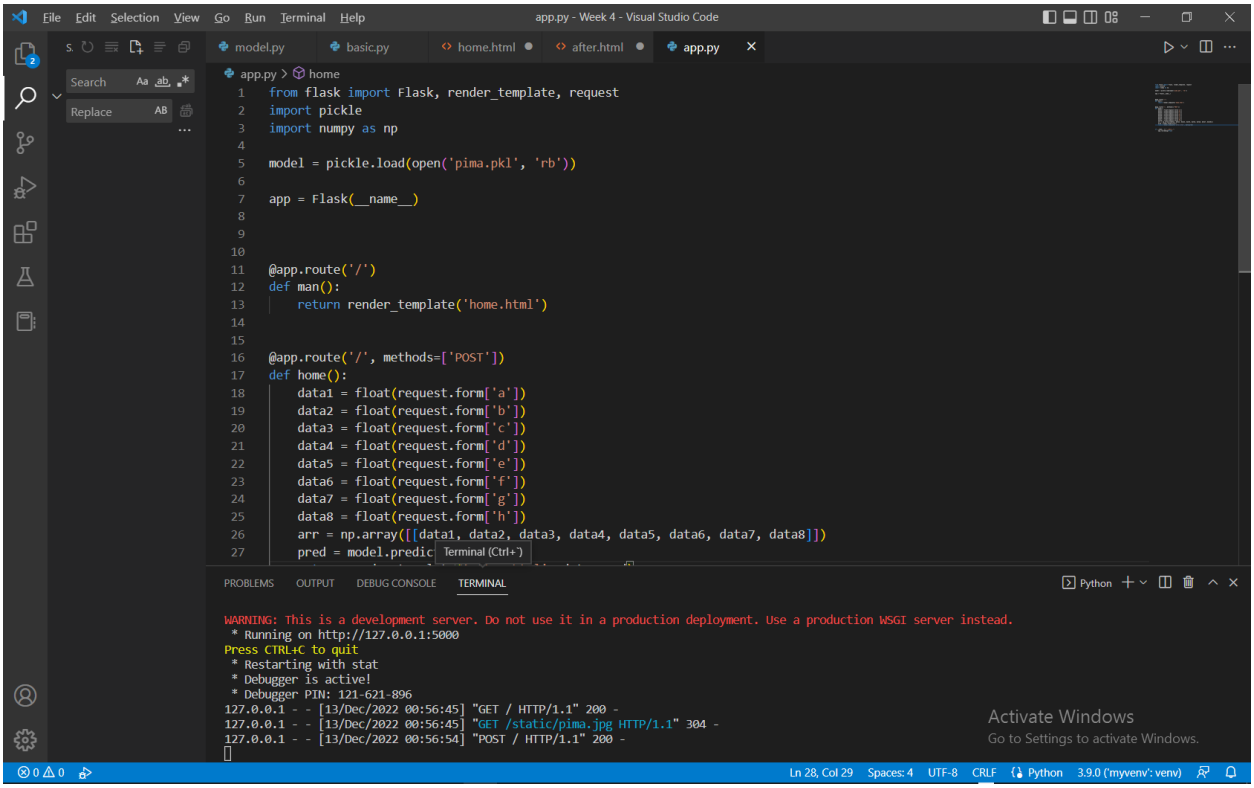
Create home.html page

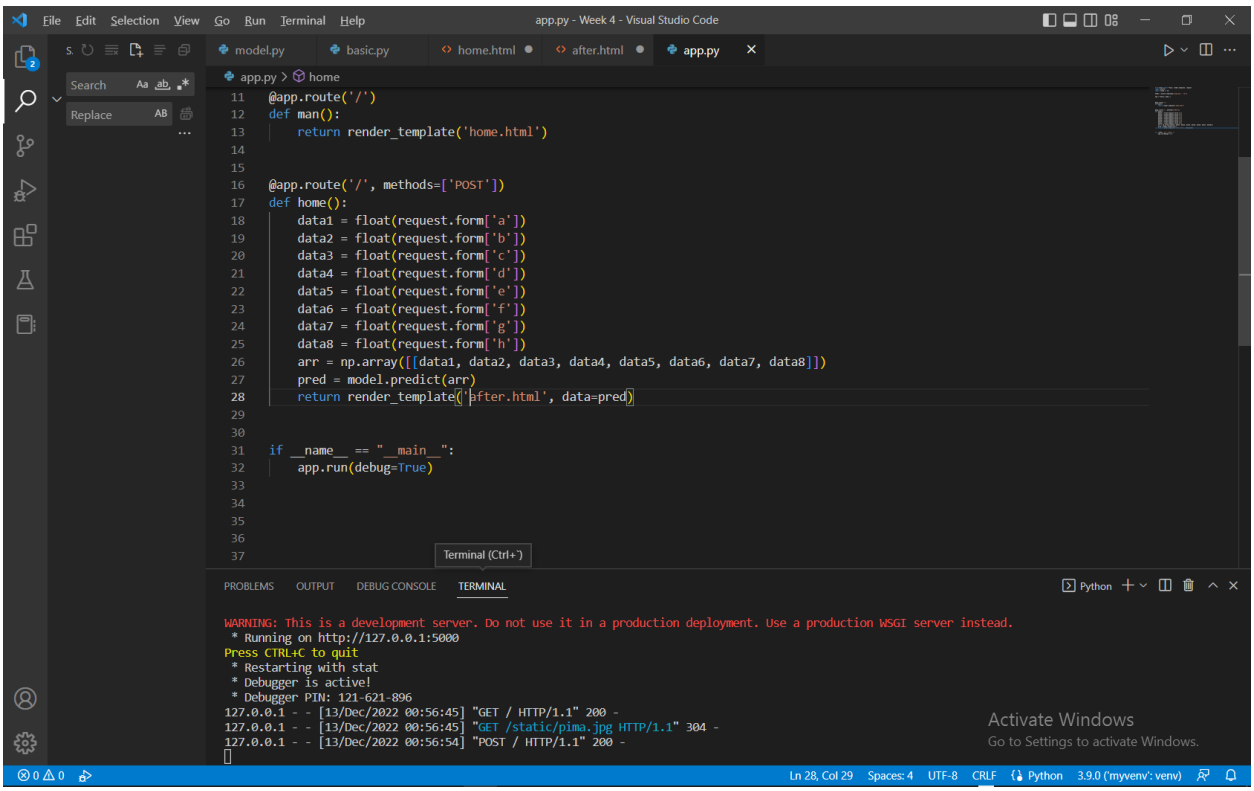


Create after.html page

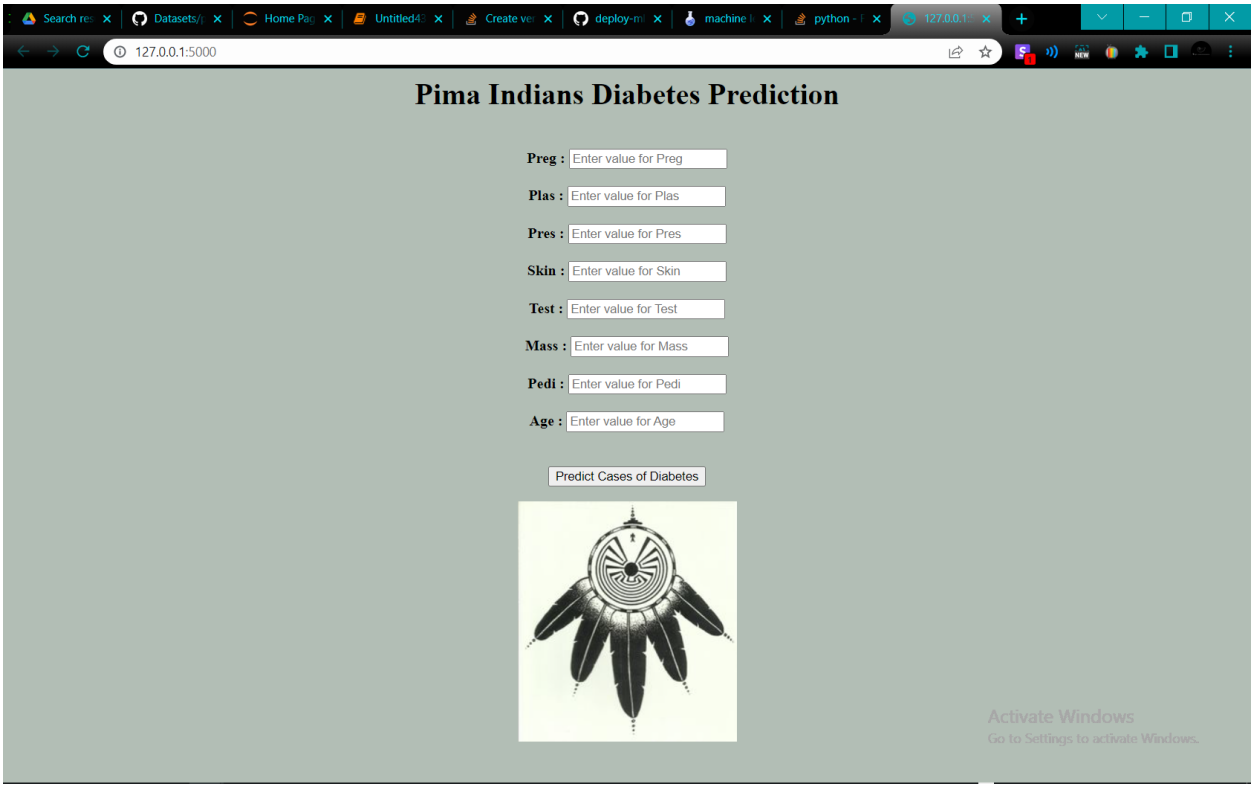


Create app.py

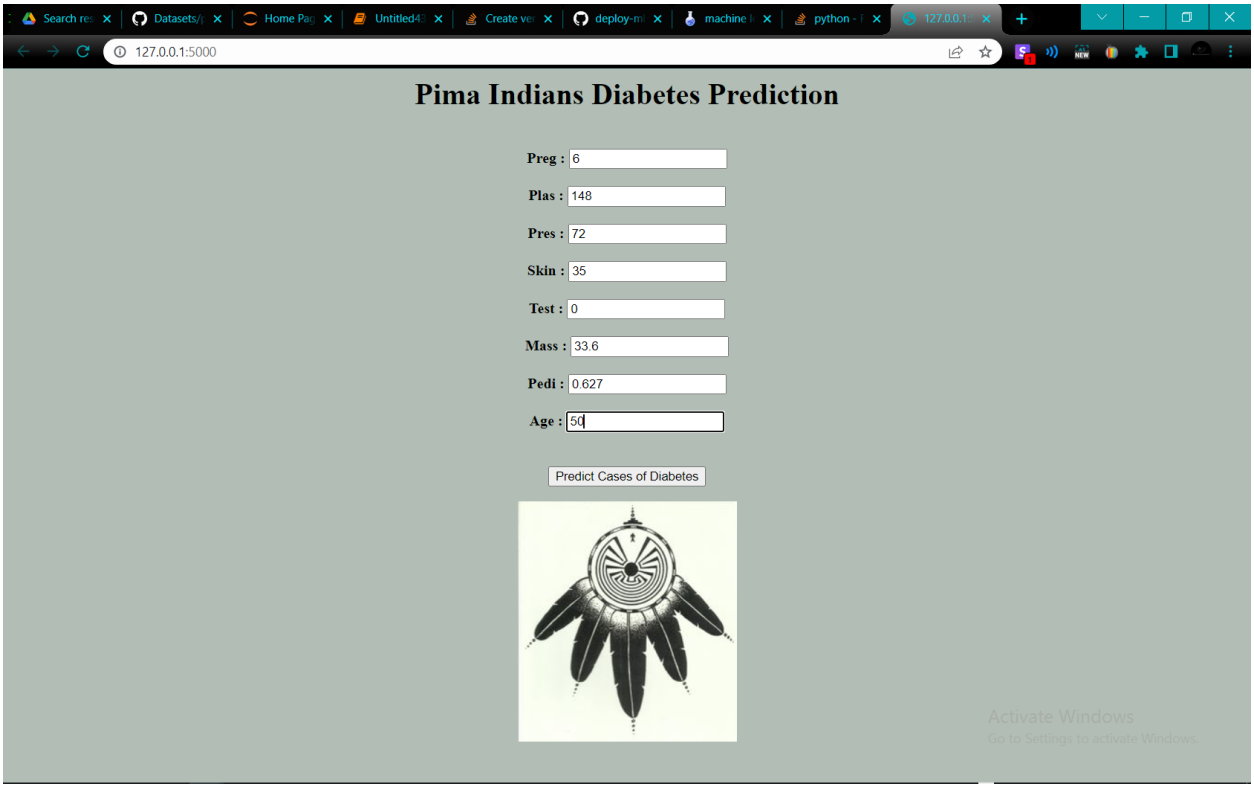




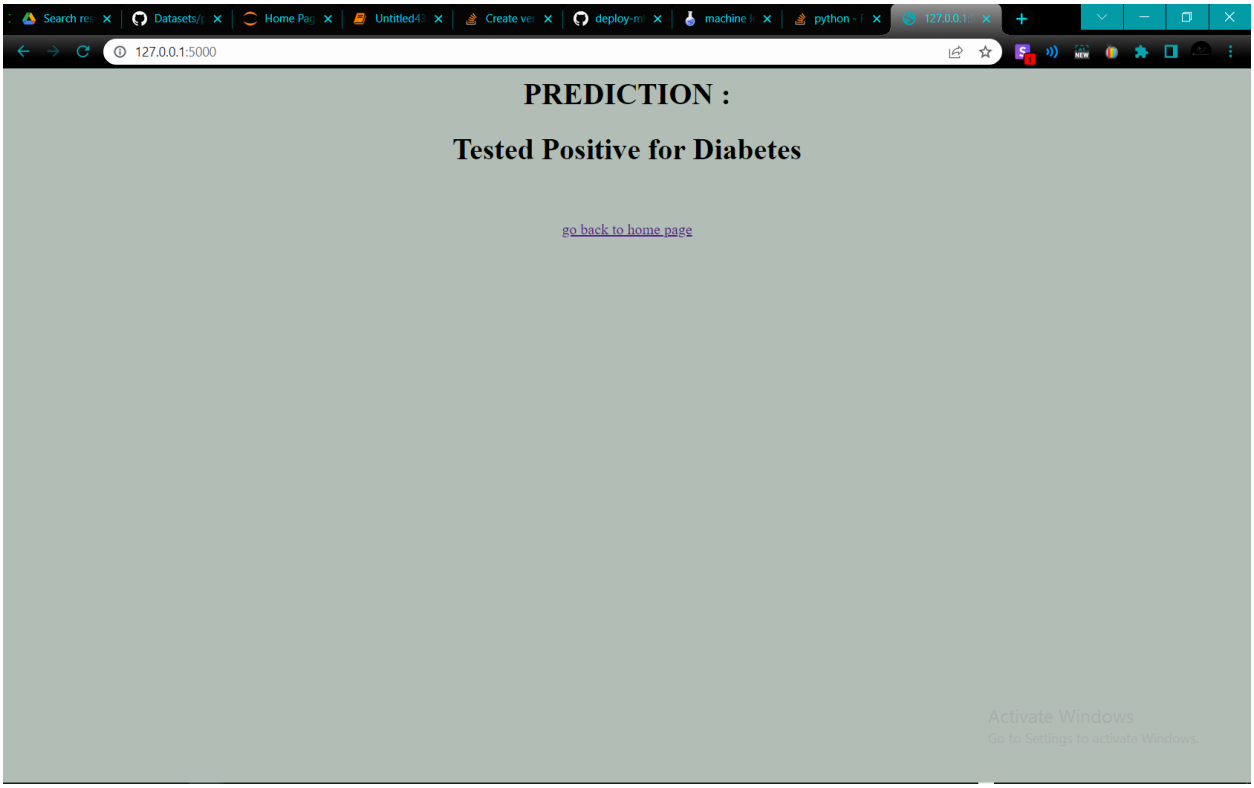
Test app.py


127.0.0.1:5000
Pima Indians Diabetes Prediction
Preg : Enter value for Preg
Plas : Enter value for Plas
Pres : Enter value for Pres
Skin : Enter value for Skin
Test : Enter value for Test
Mass : Enter value for Mass
Pedi : Enter value for Pedi
Age : Enter value for Age
Predict Cases of Diabetes
Activate Windows
Go to Settings to activate Windows.

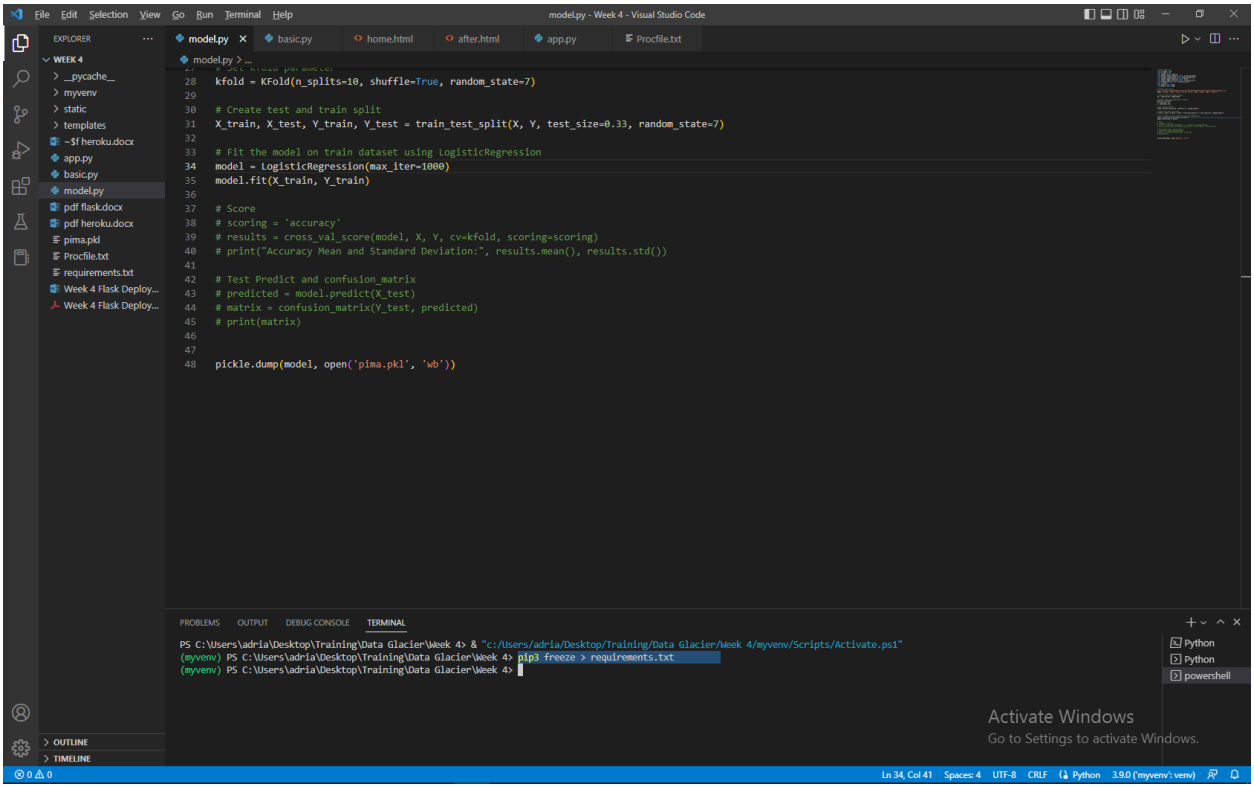
Enter values:



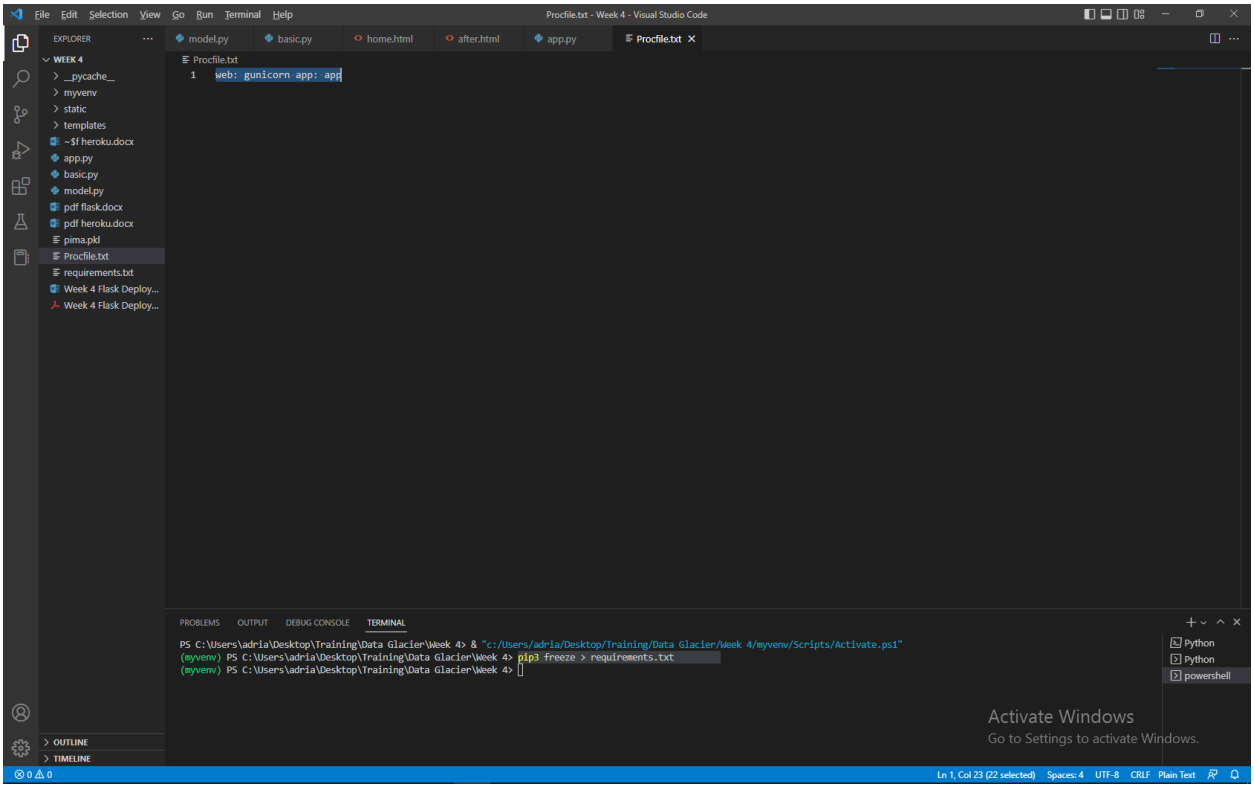
See prediction results:



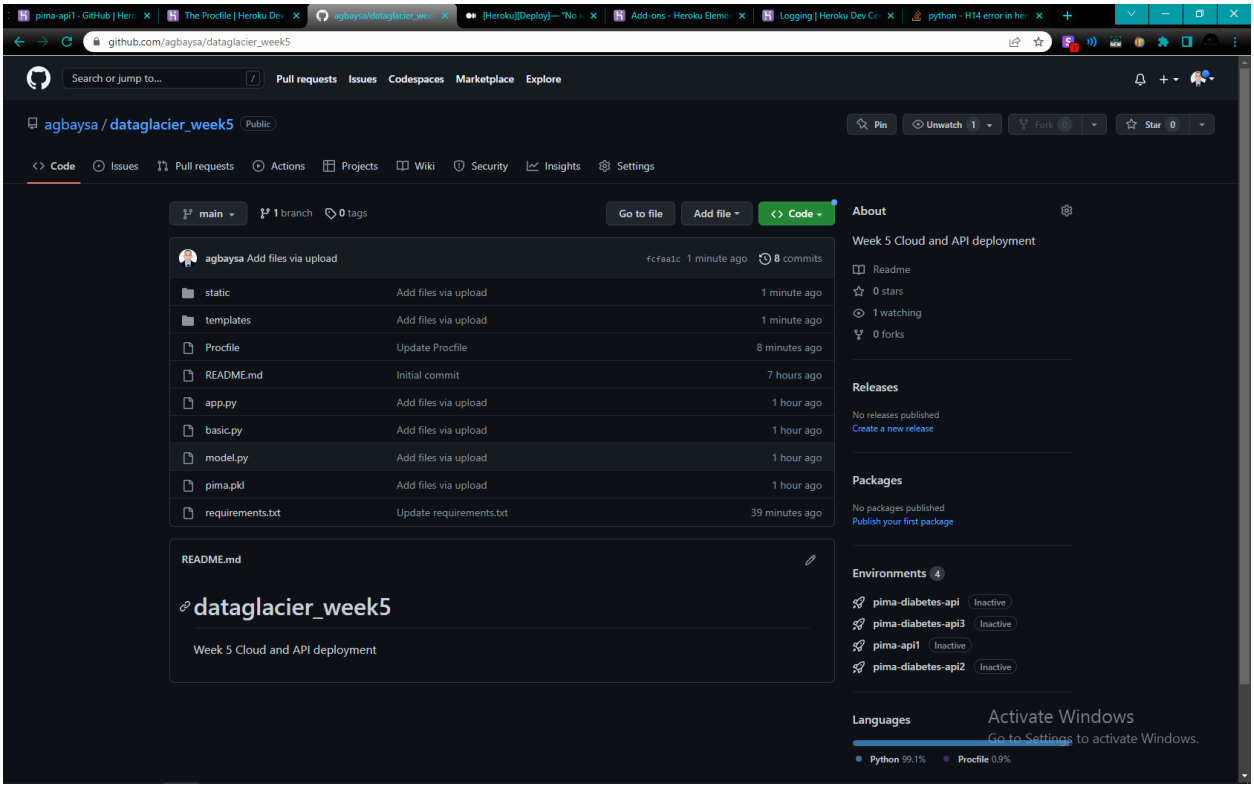
Create requirement.txt file



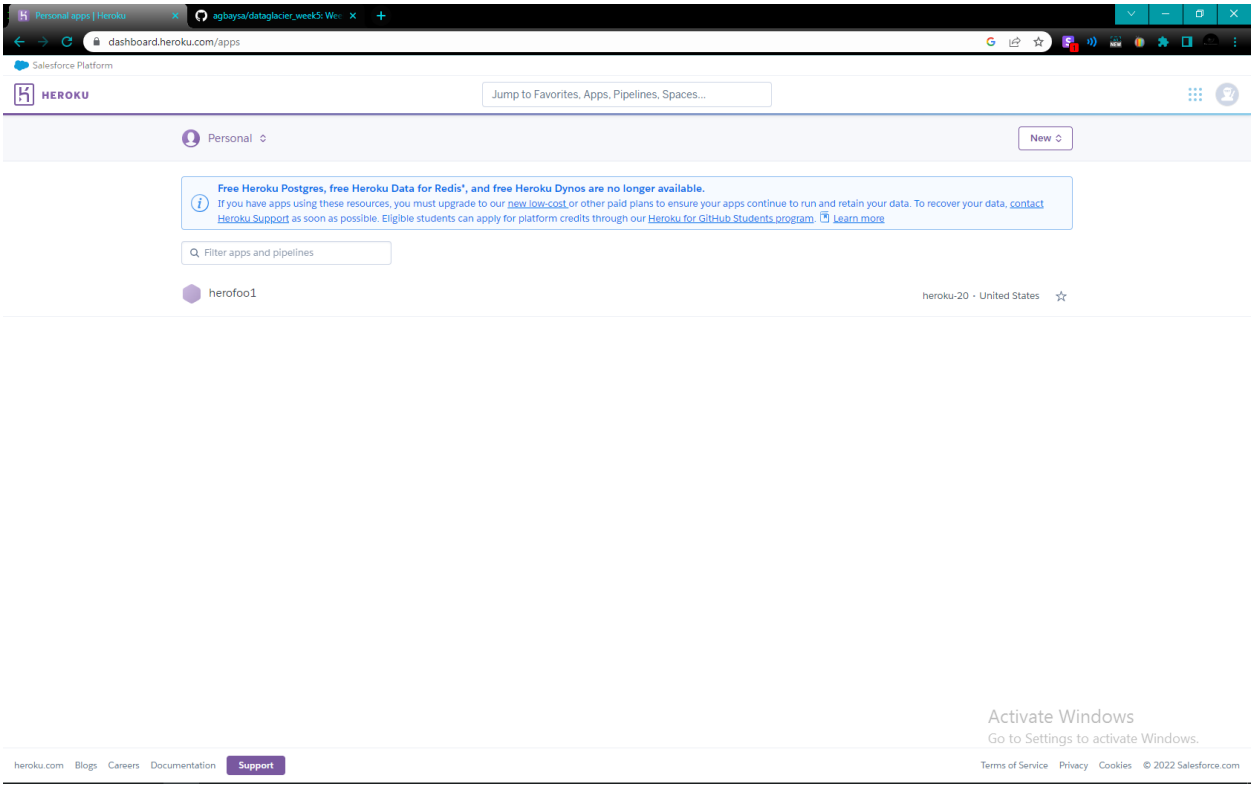
Create Procfile

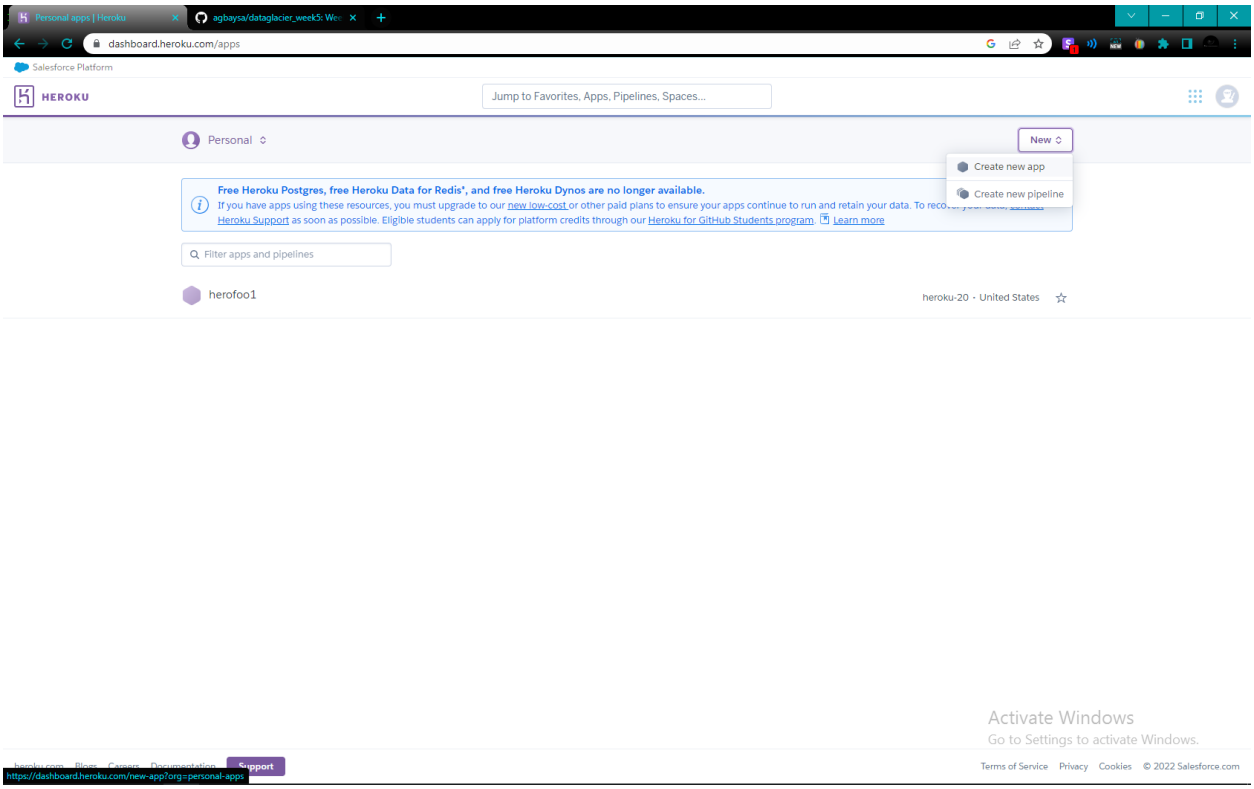


Create repository in Github. Upload files and commit



Login to Heroku. Select “New” and “Create New App”




Personal apps | Heroku
agbaysa/dataglacier_week5: We
dashboard.heroku.com/apps
Salesforce Platform
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Personal
New
Create new app
Create new pipeline
Free Heroku Postgres, free Heroku Data for Redis*, and free Heroku Dynos are no longer available.
If you have apps using these resources, you must upgrade to our new low-cost or other paid plans to ensure your apps continue to run and retain your data. To
Heroku Support as soon as possible. Eligible students can apply for platform credits through our Heroku for GitHub Students program. Learn more
Filter apps and pipelines
herofoo1
heroku-20 · United States
Activate Windows
Go to Settings to activate Windows.
Support
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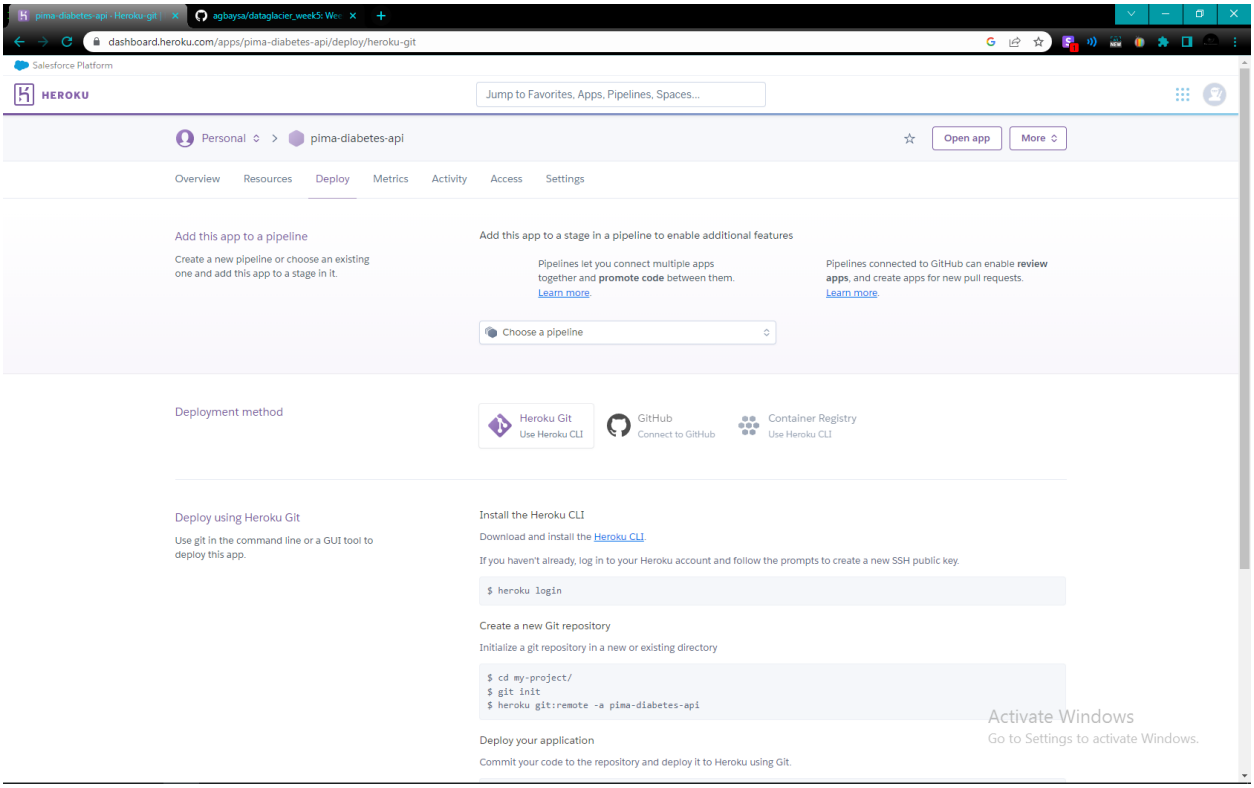
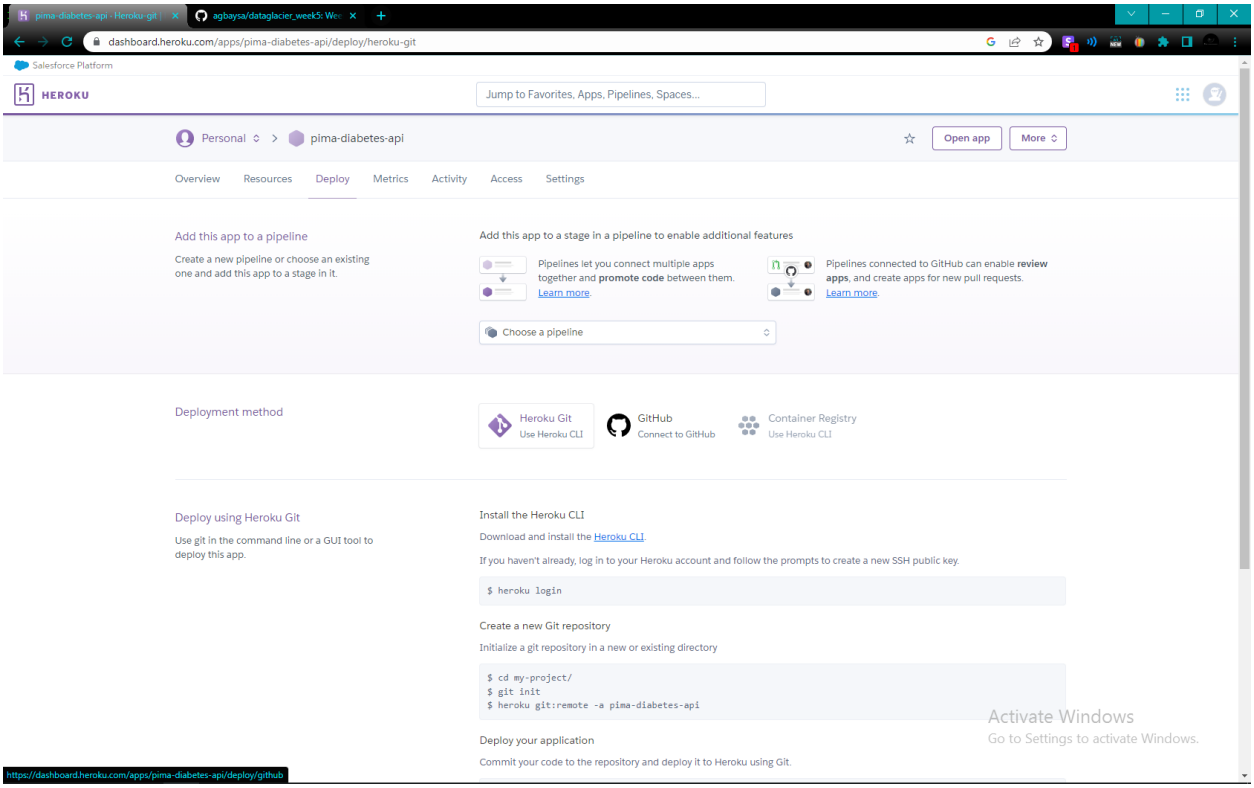
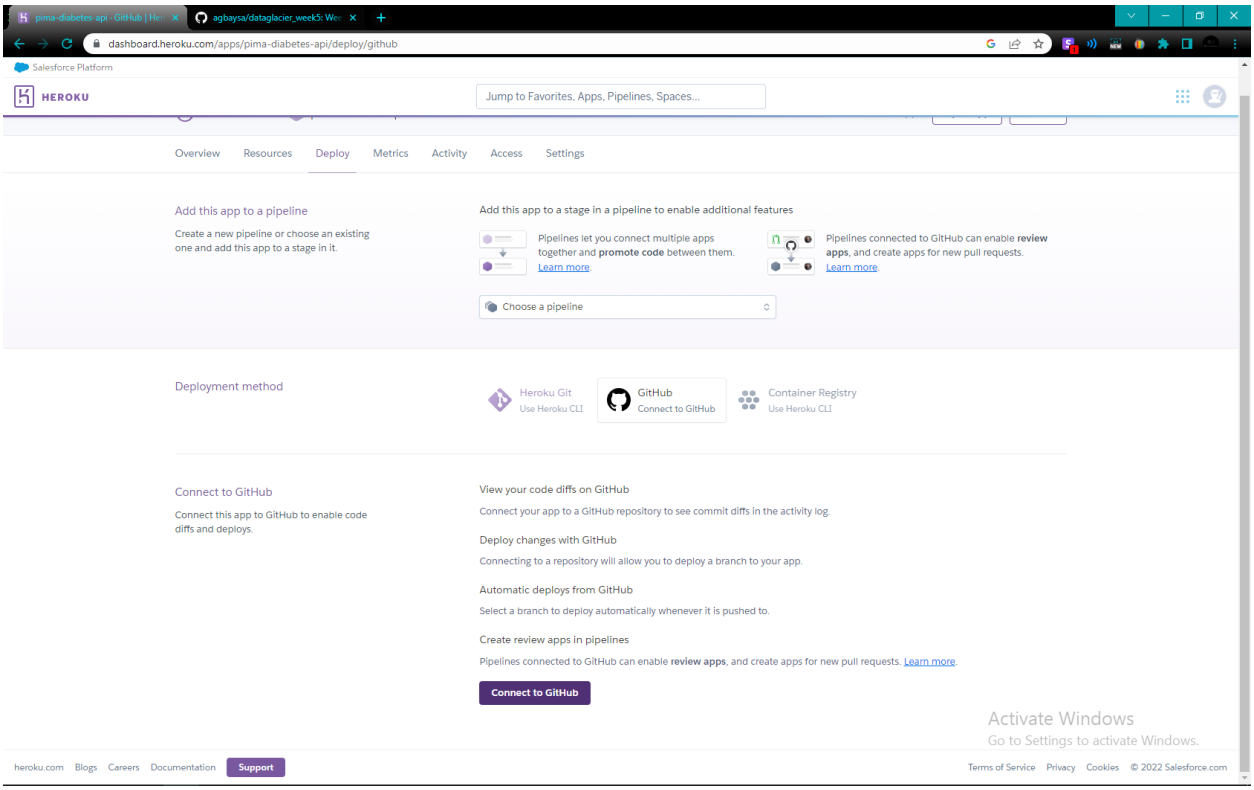
https://dashboard.heroku.com/new-app?org=personal-apps

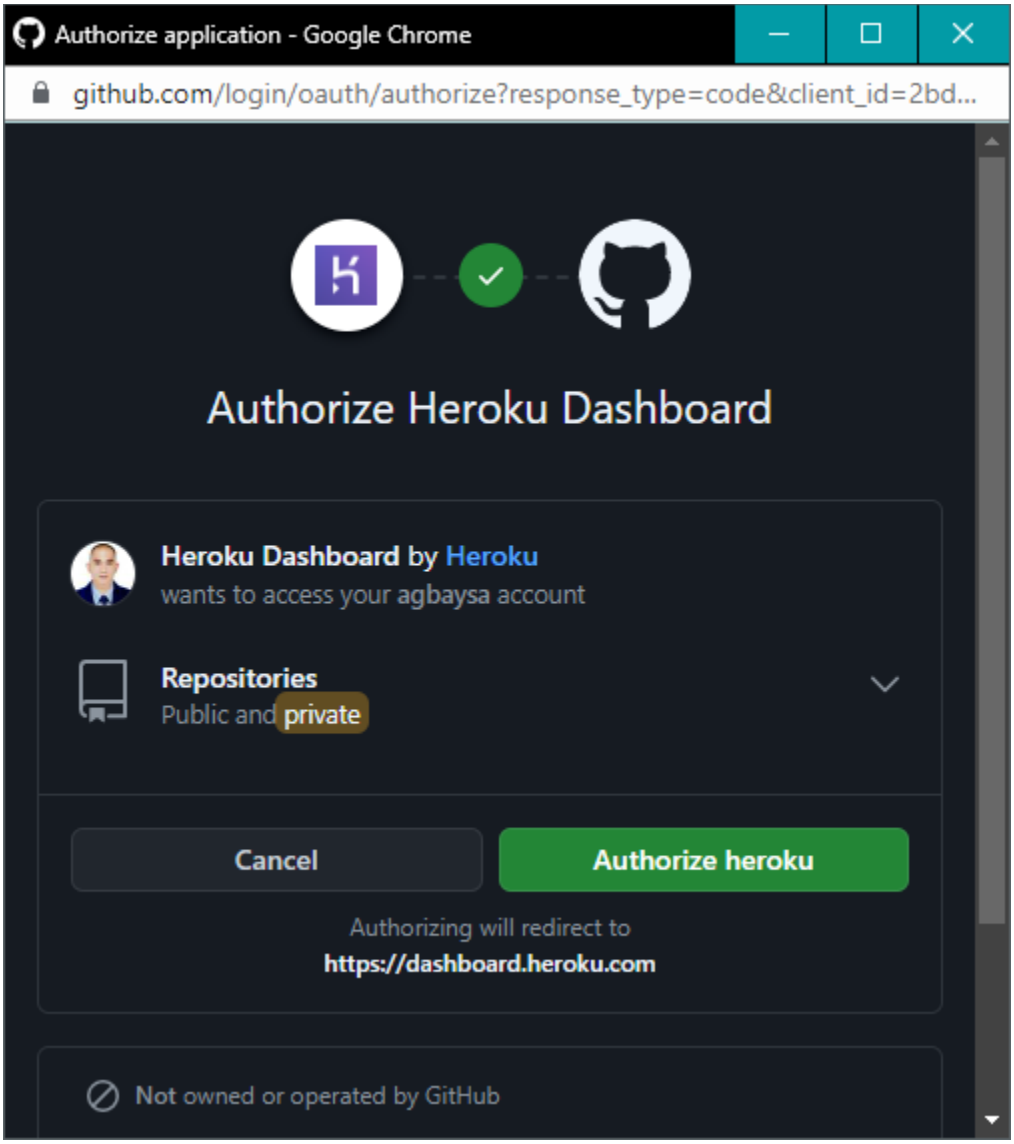
Create app name



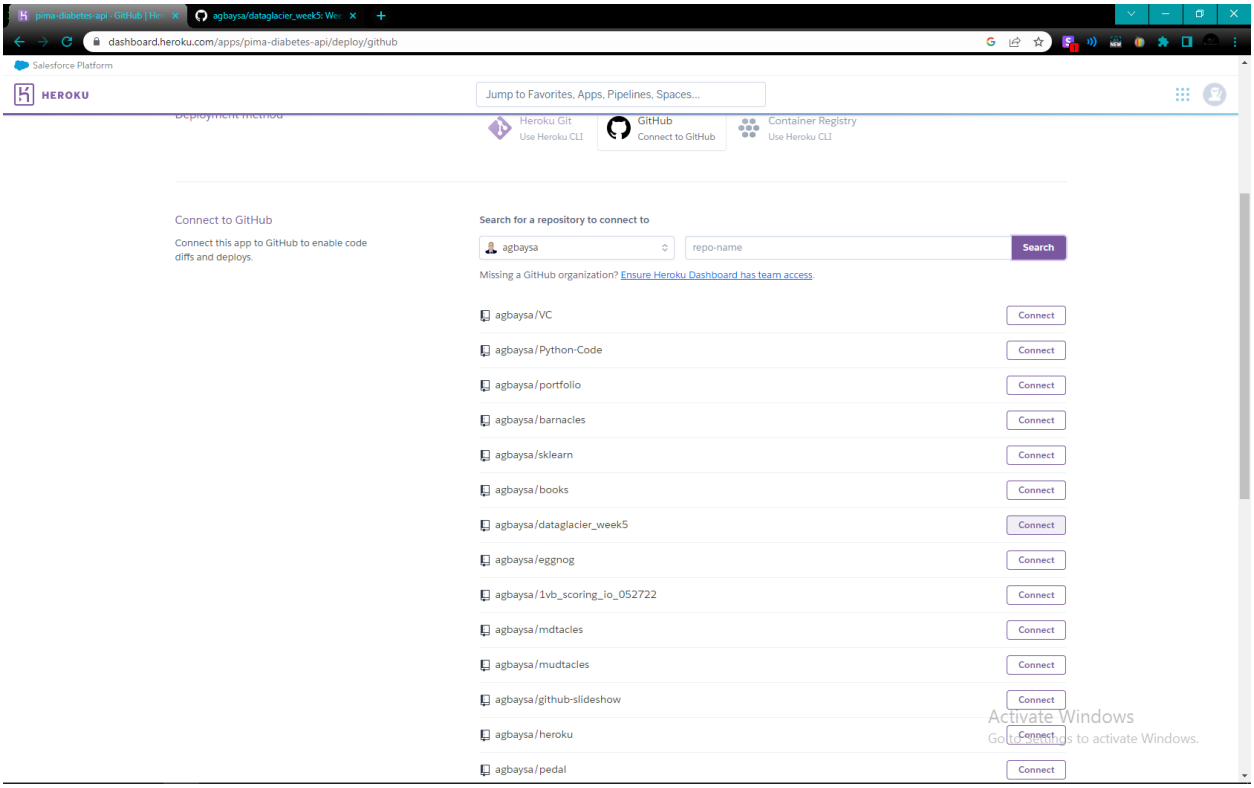
Connect to Github



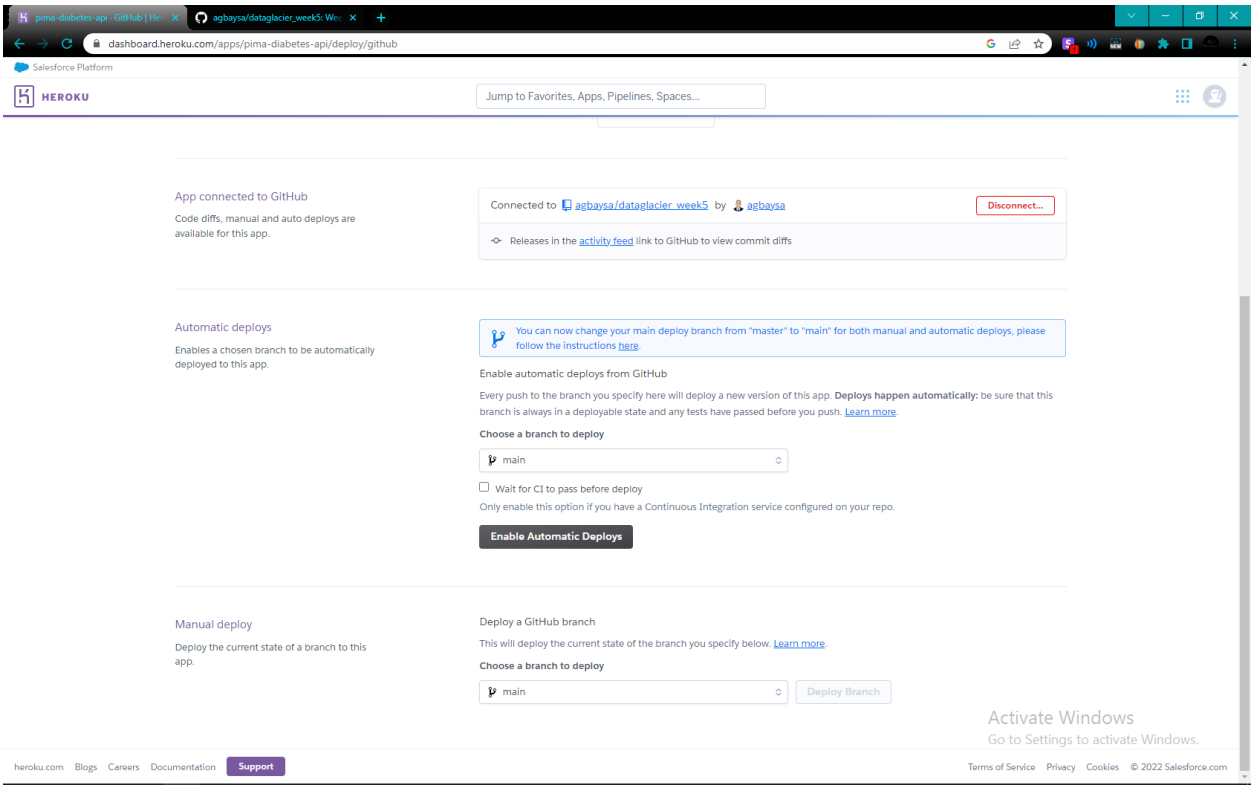



Authorize application - Google Chrome
github.com/login/oauth/authorize?response_type=code&client_id=2bd...
Authorize Heroku Dashboard
Heroku Dashboard by Heroku
wants to access your agbaysa account
Repositories
Public and private
Cancel
Authorize heroku
Authorizing will redirect to
https://dashboard.heroku.com
Not owned or operated by GitHub

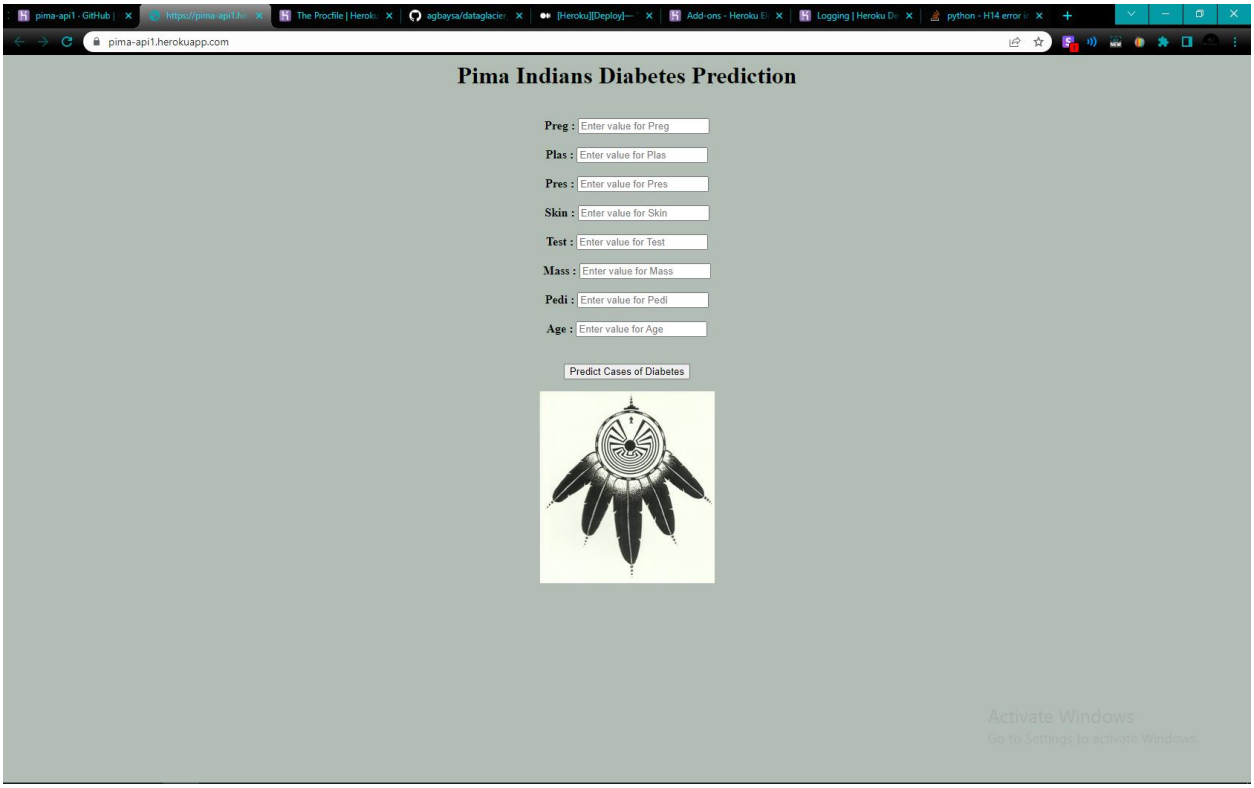
Select repository and connect



Deploy branch


pima-diabetes-api · GitHub | He
agbaysa/dataglacier_week5: We
dashboard.heroku.com/apps/pima-diabetes-api/deploy/github
Salesforce Platform
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
App connected to GitHub
Code diffs, manual and auto deploys are available for this app.
Connected to agbaysa/dataglacier_week5 by agbaysa
Disconnect...
Releases in the activity feed link to GitHub to view commit diffs
Automatic deploys
Enables a chosen branch to be automatically deployed to this app.
You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.
Enable automatic deploys from GitHub
Every push to the branch you specify here will deploy a new version of this app. Deploys happen automatically: be sure that this branch is always in a deployable state and any tests have passed before you push. Learn more.
Choose a branch to deploy
main
Wait for CI to pass before deploy
Only enable this option if you have a Continuous Integration service configured on your repo.
Enable Automatic Deploys
Manual deploy
Deploy the current state of a branch to this app.
Deploy a GitHub branch
This will deploy the current state of the branch you specify below. Learn more.
Choose a branch to deploy
main
Deploy Branch
Activate Windows
Go to Settings to activate Windows.
heroku.com Blogs Careers Documentation Support
Terms of Service Privacy Cookies © 2022 Salesforce.com

View the deployed app and test



Test and see prediction