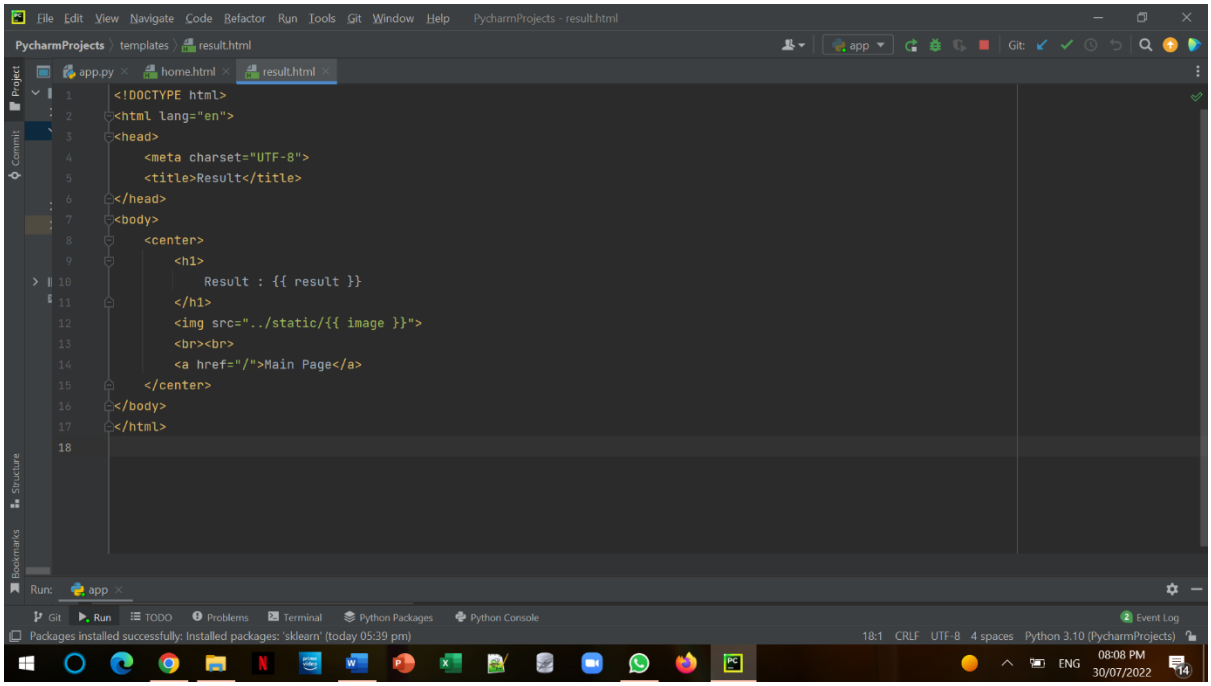
Name: Isha Panjwani

Batch Code: LISUM11: 30

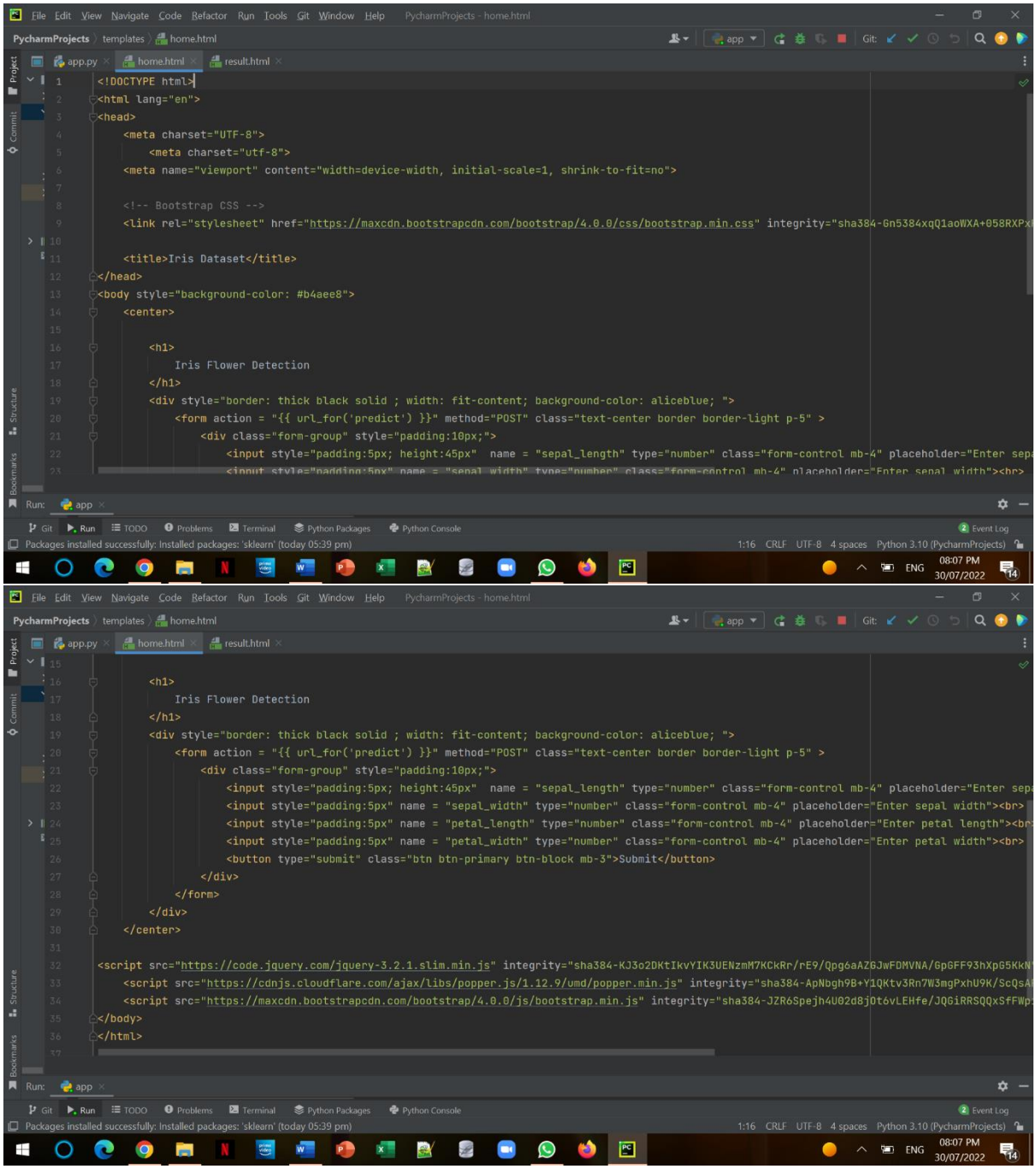
Submission Date: 30th July 2022

Submitted to: Data Glacier

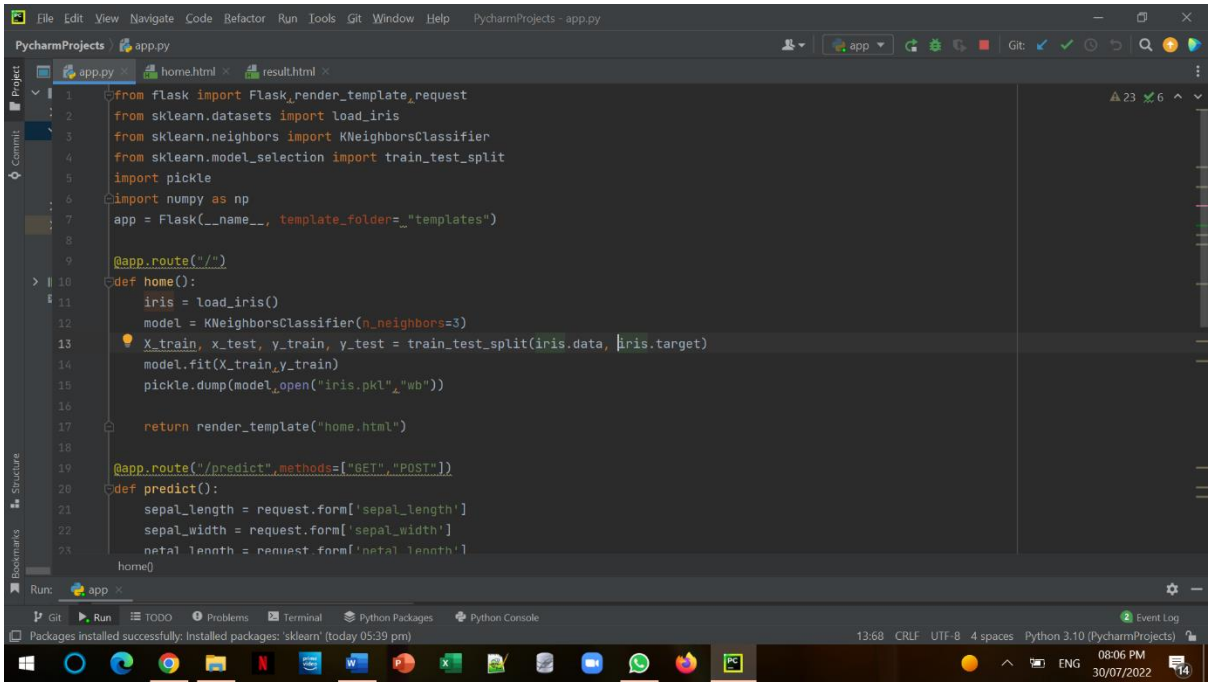
(i) Html file: result.html



(ii) Html file: home.html



(iii) Python file: app.py

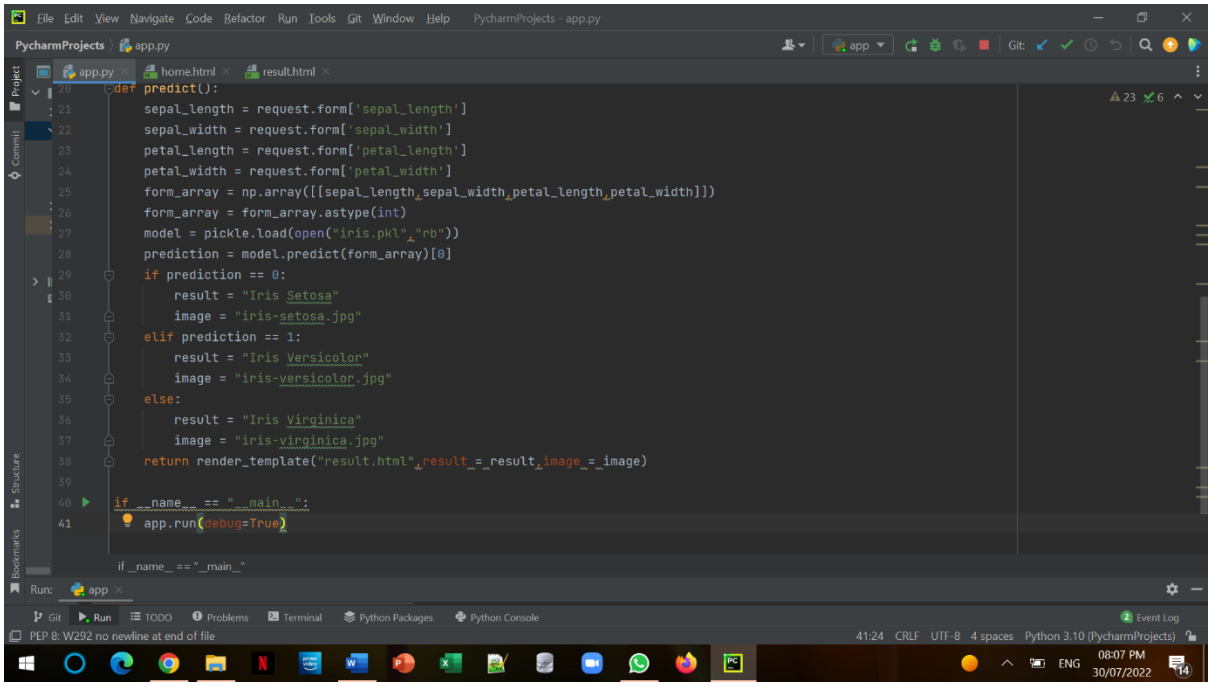


```
from flask import Flask,render_template,request
from sklearn.datasets import load_iris
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import train_test_split
import pickle
import numpy as np
app = Flask(__name__, template_folder="templates")

@app.route("/")
def home():
    iris = load_iris()
    model = KNeighborsClassifier(n_neighbors=3)
    X_train, x_test, y_train, y_test = train_test_split(iris.data, iris.target)
    model.fit(X_train,y_train)
    pickle.dump(model,open("iris.pkl","wb"))

    return render_template("home.html")

@app.route("/predict",methods=["GET","POST"])
def predict():
    sepal_length = request.form['sepal_length']
    sepal_width = request.form['sepal_width']
    petal_length = request.form['petal_length']
```



```
def predict():
    sepal_length = request.form['sepal_length']
    sepal_width = request.form['sepal_width']
    petal_length = request.form['petal_length']
    petal_width = request.form['petal_width']
    form_array = np.array([[sepal_length,sepal_width,petal_length,petal_width]])
    form_array = form_array.astype(int)
    model = pickle.load(open("iris.pkl","rb"))
    prediction = model.predict(form_array)[0]
    if prediction == 0:
        result = "Iris Setosa"
        image = "iris-setosa.jpg"
    elif prediction == 1:
        result = "Iris Versicolor"
        image = "iris-versicolor.jpg"
    else:
        result = "Iris Virginica"
        image = "iris-virginica.jpg"
    return render_template("result.html",result=result,image=image)

if __name__ == "__main__":
    app.run(debug=True)
```

(iv) Web page after deployment