Date	11/19/22
Team ID	PNT2022TMID22022
	Project – A Novel Method for Handwritten Digit Recognition System

main.py:

```
from flask import Flask, render template, request
from PIL import Image
import numpy as np
from tensorflow.keras.models import load_model
import tensorflow as tf
app = Flask( name )
@app.route('/')
def upload_file():
  return render_template('index.html')
@app.route('/about')
def upload_file1():
  return render_template('predict.html')
@app.route('/upload')
def upload file2():
  return render template('predict.html')
@app.route('/upload', methods = ['POST'])
def upload_image_file():
  if request.method=='POST':
    img = Image.open(request.files['file'].stream).convert("L")
    img = img.resize((28,28))
    img2arr = np.array(img)
    img2arr = img2arr.reshape(1,28,28,1)
    model = load model('mnistCNN.h5')
    #y pred = model.predict classes(img2arr)
    y_pred = np.argmax(model.predict(img2arr), axis=1)
    print(y_pred)
    if(y_pred == 0):
```

```
return render template("predict.html",msg="0")
    elif(y pred == 1):
      #return render template("1.html",shoechase = str(y pred))
      return render_template("predict.html",msg="1")
    elif(y pred == 2):
      #return render template("2.html",shoechase = str(y pred))
      return render template("predict.html",msg="2")
    elif(y pred == 3):
      #return render_template("3.html",shoechase = str(y_pred))
      return render template("predict.html",msg="3")
    elif(y pred == 4):
      #return render template("4.html",shoechase = str(y pred))
      return render template("predict.html",msg="4")
    elif(y_pred == 5):
      #return render_template("5.html",shoechase = str(y_pred))
      return render template("predict.html",msg="5")
    elif(y_pred == 6):
      #return render template("6.html",shoechase = str(y pred))
      return render_template("predict.html",msg="6")
    elif(y_pred == 7):
      #return render template("7.html",shoechase = str(y pred))
      return render_template("predict.html",msg="7")
    elif(y pred == 8):
      #return render_template("8.html",shoechase = str(y_pred))
      return render_template("predict.html",msg="8")
    else:
      #return render template("9.html",shoechase = str(y pred))
      return render template("predict.html",msg="9")
  else:
    return None
if __name__='__main__':
  app.run()
```