**WEEK\_5:**

**CODE:**

model = keras.Sequential([

keras.layers.Conv1D(50, 5, padding='same', input\_shape=(50, 5), activation=tf.nn.relu, kernel\_initializer="normal"),

keras.layers.MaxPooling1D(7),

keras.layers.Conv1D(100, 5, padding='same', activation=tf.nn.relu, kernel\_initializer="normal"),

keras.layers.GlobalMaxPooling1D(),

keras.layers.Dense(25, activation=tf.nn.relu, kernel\_initializer="normal"),

keras.layers.Dense(2)

])

model.compile(optimizer="adam", loss="mse", metrics=["mae"])

# My SID id 2454981 # Z+Y # 8+1 = 9

history = model.fit(X\_train, y\_train, batch\_size=50, epochs=9, validation\_split=0.2, verbose=1)

mse, mae = model.evaluate(X\_test, y\_test, verbose=1)

print("Mean absolute error: %.5f" % mae)

difference = mae-mae

print("difference %.5f" %difference)

print(model.summary())

**OUTPUT:**

A screen shot of a computer code

AI-generated content may be incorrect.A white background with black and white text

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.