# Importing the libraries  
  
import numpy as np  
import pickle  
import streamlit as st  
  
# loading the saved model  
  
  
loaded\_model = pickle.load(open("C:/downloads/trained\_model.sav", 'rb'))  
  
  
# Creating a function for Prediction  
def heartdisease\_prediction(input\_data):  
 numpy\_data = np.asarray(input\_data)

# Reshaping the numpy array as we are predicting for only on instance  
 input\_reshaped = numpy\_data.reshape(1, -1)  
 prediction = loaded\_model.predict(input\_reshaped)  
 if (prediction[0] == 0):  
 st.success('The person does not have heart disease')  
 else:  
 st.warning('The person have heart disease')

# Adding title to the page  
st.title('Heart disease prediction Web App')

# Getting the input data from the user  
age = st.text\_input('Age in Years')  
sex = st.text\_input('Sex : 1 – male, 0 – female')  
cp = st.text\_input('Chest pain type')  
trestbps = st.text\_input('Resting blood pressure in mm Hg')  
chol = st.text\_input('Serum cholesterol in mg/dl')  
fbs = st.text\_input('Fasting blood sugar > 120 mg/dl : 1 – true, 0 – false')  
restecg = st.text\_input('Resting electrocardiographic results')  
thalach = st.text\_input('Maximum heart rate achieved')  
exang = st.text\_input('Exercise induced angina: 1 – yes, 0 – no')  
oldpeak = st.text\_input('ST depression')  
slope = st.text\_input('Slope')  
ca = st.text\_input('Number of major vessels (0-3)')  
thal = st.text\_input('Thal')

# code for Prediction  
diagnosis = ' '  
# creating a button for Prediction  
if st.button('Heart Disease Test Result'):  
 diagnosis = heartdisease\_prediction([age, sex, cp, trestbps, chol, fbs, restecg, thalach,  
 exang, oldpeak, slope, ca, thal])