**TITLE: Artificial intelligence based diabetes prediction system**

**PROGRAM:**

**Import pandas as pd**

**From sklearn.model\_selection import train\_test\_split**

**From sklearn.linear\_model import LogisticRegression**

**From sklearn.metrics import accuracy\_score**

**# Load your dataset**

**Data = pd.read\_csv(‘diabetes\_dataset.csv’)**

**# Define features and target**

**X = data.drop(‘diabetes\_label’, axis=1)**

**Y = data[‘diabetes\_label’]**

**# Split the data into training and testing sets**

**X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)**

**# Create and train the model**

**Model = LogisticRegression()**

**Model.fit(X\_train, y\_train)**

**# Make predictions**

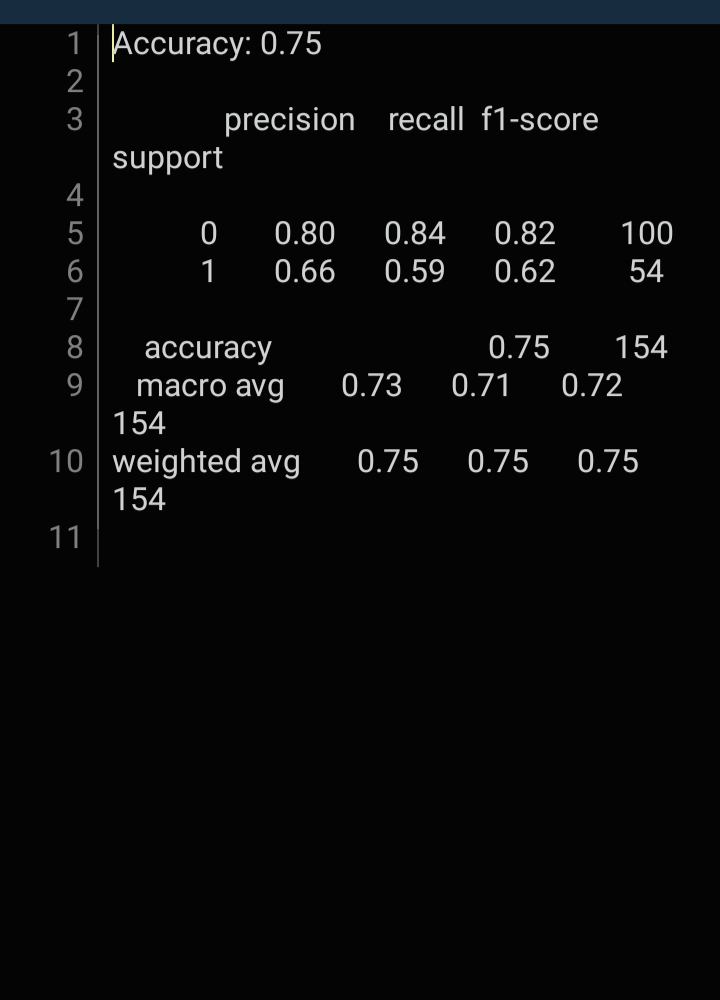
**Y\_pred = model.predict(X\_test)**

**# Evaluate the model**

**Accuracy = accuracy\_score(y\_test, y\_pred)**

**Print(“Accuracy:”, accuracy)**

**OUTPUT:**

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