**PROGRAM [12]:**

from sklearn.datasets import load\_breast\_cancer

from sklearn.ensemble import RandomForestClassifier, VotingClassifier

from sklearn.linear\_model import LogisticRegression

from sklearn.svm import SVC

from sklearn.model\_selection import train\_test\_split

from sklearn.metrics import accuracy\_score

# Load dataset

data = load\_breast\_cancer()

X = data.data

y = data.target

# Split dataset 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 individual models

lr = LogisticRegression(random\_state=42)

svc = SVC(kernel='linear', probability=True, random\_state=42)

rf = RandomForestClassifier(n\_estimators=10, random\_state=42)

# Create ensemble model

ensemble = VotingClassifier(estimators=[('lr', lr), ('svc', svc), ('rf', rf)], voting='soft')

# Train ensemble model

ensemble.fit(X\_train, y\_train)

# Predict using ensemble model

y\_pred = ensemble.predict(X\_test)

# Calculate accuracy score

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

# Print accuracy score

print('Accuracy:', accuracy)

**OUTPUT [12]:**

