**Code 1 B**

import seaborn as sns

import pandas as pd

import numpy as np

df= sns.load\_dataset('iris')

df.head()

df

df.info()

df.describe()

df.shape()

df.tail()

df['species'].unique()

df.isnull().sum()

df=df[df['species']!='setosa']

df.shape

df['species']=df['species'].map({'versicolor':0, 'virginica':1})

df.head()

df.tail()

X=df.iloc[:,:-1]

print(X)

y=df.iloc[:,-1]

print(y)

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

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, train\_size = 0.7, test\_size = 0.25, random\_state = 42)

X\_train

X\_test

y\_train

y\_test

from sklearn.linear\_model import LogisticRegression

classifier=LogisticRegression()

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

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

y\_pred

from sklearn.metrics import accuracy\_score, classification\_report

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

print(score)

print(classification\_report(y\_pred, y\_test))

sns.pairplot(df, hue='species')

df.corr()