import pandas as pd

from sklearn.linear\_model import LinearRegression

from sklearn.svm import SVC

def reg(file,impacts,outcome,inps):

data = pd.read\_csv("LiftMaintainancePrediction.csv")

X = data[impacts]

Y = data[outcome]

linear\_regressor = LinearRegression()

linear\_regressor.fit(X, Y)

nx = [inps]

pred = linear\_regressor.predict(nx)

return pred

def classify(file,impacts,outcome,inps):

data = pd.read\_csv("LiftMaintainancePrediction.csv")

X = data[impacts]

Y = data[outcome]

clf=SVC(kernel='linear')

clf.fit(X,Y)

nx = [inps]

pred = clf.predict(nx)

return pred

msg=input(" you: ")

if "predict" in msg:

print("what do you want to predict?")

print('1.regression\n 2.classify')

b=int(input('enter your choice'))

if b==1:

TEMPERATURE= int(input("Enter temperature: "))

CAPACITY = int(input("Enter capacity: "))

SPEED = int(input("Enter speed: "))

DOOR\_OPENING\_TIME = int(input("Enter door opening time: "))

p = float(input("Enter p: "))

q = int(input("Enter q: "))

r=float(input("enter r: "))

p = reg('db.csv',["TEMPERATURE","CAPACITY","SPEED","DOOR\_OPENING\_TIME","p","q","r"],"OUTCOMES",[TEMPERATURE,CAPACITY,SPEED,DOOR\_OPENING\_TIME,p,q,r])

print("Lift maintainance is: ",float(p[0])\*100)

elif b==2:

TEMPERATURE= int(input("Enter temperature: "))

CAPACITY = int(input("Enter capacity: "))

SPEED = int(input("Enter speed: "))

DOOR\_OPENING\_TIME = int(input("Enter door opening time: "))

p = float(input("Enter p: "))

q = int(input("Enter q: "))

r=float(input("enter r: "))

p = classify('db.csv',["TEMPERATURE","CAPACITY","SPEED","DOOR\_OPENING\_TIME","p","q","r"],"CLASS",[TEMPERATURE,CAPACITY,SPEED,DOOR\_OPENING\_TIME,p,q,r])

print("Lift maintainance is: ",float(p[0])\*100)