**Logistic for bankloan**

**Import packages:**

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sea

**Import data:**

data=pd.read\_excel('Bank\_Personal\_Loan\_Modelling.xlsx',sheet\_name=1)

**Delete unwanted data:**

del data['ID']

del data["ZIP Code"]

**Normalizer:**

from sklearn.preprocessing import Normalizer

scale=Normalizer()

sc=scale.fit\_transform(data)

**Split x and y:**

y=data.iloc[:,7]

x=data.iloc[:,[0,1,2,3,4,5,6,8,9,10,11]]

**split the data set** :

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

xtrain,xtest,ytrain,ytest=train\_test\_split(x, y,test\_size=0.2,random\_state=2)

**Fitting the logistic regression:**

from sklearn.linear\_model import LogisticRegression

cls=LogisticRegression(random\_state=0)

cls.fit(xtrain,ytrain)

#predict the test model

ypre=cls.predict(xtest)

**Making confusion matrix:**

from sklearn.metrics import confusion\_matrix

cm=confusion\_matrix(ytest,ypre)

