SET – 2

from numpy import \*

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.linear\_model import LinearRegression

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

#1

data = pd.read\_csv('Salary\_Data.csv')

data.head(10)

#2

print("Maximum :",data['Salary'].max())

print("Minimum :",data['Salary'].min())

#3

print("Average Salary : ",data['Salary'].mean())

#4

x = data[['YearsExperience']]

y = data['Salary']

#5

x\_train,x\_test,y\_train,y\_test=train\_test\_split(x,y,test\_size=0.3)

model = LinearRegression()

model.fit(x\_train,y\_train)

#6

model.predict(x\_test)

SET -4

from numpy import \*

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.linear\_model import LinearRegression

from sklearn.linear\_model import LogisticRegression

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

#1

data = pd.read\_csv('salaries.csv')

data[['experience\_level','salary']]

#2

plt.scatter(data.experience\_level,data.salary)

from sklearn.preprocessing import LabelEncoder

#3

x = data[['salary']]

y = data['experience\_level']

#4

x\_train,x\_test,y\_train,y\_test=train\_test\_split(x,y,test\_size=0.2)

#5

model = LogisticRegression()

model.fit(x\_train,y\_train)

#6

model.predict(x\_test)

#logistioc regression will work with string and int both but linear will only work with int values