KNN:

import numpy as np

import pandas as pd

df=pd.read\_csv("C:\\Users\\Hp\\Desktop\\Neha\_mall\\Malldata.csv")

from sklearn.neighbors import KNeighborsClassifier

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

X=df[['CustomerID']]

Y=df[['Annual Income ']]

X\_train,X\_test,y\_train,y\_test= train\_test\_split(X, Y, test\_size = 0.2, random\_state=42)

knn=KNeighborsClassifier()

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

p1=knn.predict([['15']])

p1[0]

Decisonntree:

import numpy as np

import pandas as pd

df=pd.read\_csv("C:\\Users\\Hp\\Desktop\\Neha\_mall\\Malldata.csv")

from sklearn.tree import DecisionTreeClassifier

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

X=df[['CustomerID']]

Y=df[['Annual Income ']]

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, Y, random\_state=1)

dt = DecisionTreeClassifier()

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

p1 = dt.predict([[3]])

p1[0]

Linear:

import numpy as np

import pandas as pd

df=pd.read\_csv("C:\\Users\\Hp\\Desktop\\Neha\_mall\\Malldata.csv")

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

from sklearn.linear\_model import LinearRegression

X=df['CustomerID'].values.reshape(-1,1)

Y=df['Annual Income ']

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, Y, test\_size=0.2, random\_state=42)

regressor = LinearRegression()

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

p1 = regressor.predict([[40]])

p1[0]