**Naive Bayes:-**

#import shit

df1= pd.read\_csv('csv\_name.csv')

df1.head()

t\_count = df1[df1.target=='True'].target.count()

f\_count = df1[df1.target=='False'].target.count()

# t\_count, f\_count

def getProbability(value, columnName):

df2 = df1[df1[columnName] == value]

count\_t = df2[df2.target == "True"].target.count()

count\_f = df2[df2.target == "False"].target.count()

return (count\_t/t\_count , count\_f/f\_count)

c1 = input()

c2 = input()

c3 = int(input())

# c1 = "JEE101"

# c2 = "Q4"

# c3 = 50

ans1y , ans1N = getProbability(c1, "categoryid")

ans2y , ans2N = getProbability(c2, "quarter")

ans3y, ans3N = getProbability(c3, "discount")

yes = ans1y\*ans2y\*ans3y\*(t\_count/(t\_count+f\_count))

no = ans1N\*ans2N\*ans3N\*(f\_count/(t\_count+f\_count))

if(yes > no):

print("Student enrolled is more than 1000")

else:

print("Student enrolled is less than 1000")