write a program using shared variables like broadcast and accumulators to calculate total tax and total profit

using Retail data

retailRDD = sc.textFile("retail")

retailRDD.count()

retailRDD.getNumPartitions()

gst = sc.broadcast(5.00)

totalTax = sc.accumulator(0.00)

totalProfit = sc.accumulator(0.00)

arrayRDD = retailRDD.map(lambda a : a.split(";"))

taxAndProfit = arrayRDD.map(lambda  a : ( float(a[8])\*gst.value/100 , (float(a[8]) - float(a[7]))))

for line in taxAndProfit.collect():

... totalTax += line[0]

...

print(totalTax)

for line in taxAndProfit.collect():

... totalProfit += line[1]

...

//find net profit after deducting tax

print(totalProfit.value - totalTax.value)

print(totalProfit)