**INPUT :**

data <- data.frame(s.no= c(01,02,03,04,05,06,07,08,09,10),

sample\_values = c("17, 37 93 27 18","47 4 74 47 67",

"98 10 50 71 75","72 42 49 7 88","49 17 47 9 62",

"79 83 36 19 62" ,"83 11 46 23 24","7 45 32 14 8",

"0 56 76 31 38","42 37 7 96 88"),

mean = c(50.4,53.8,60.8,51.6,36.6,55.8,39.8,21.2,40.2,54.0),

variance = c(1104.8,906.7,1906.7,957.3,508.3,765.7,760.7,236.7,809.2,1390.5))

print(data)

k=10

n=5

N=50

mean = c(50.4,53.8,60.8,51.6,36.6,55.8,39.8,21.2,40.2,54.0)

#sum(mean)

mean\_sample\_mean = sum(mean)/k

print(mean\_sample\_mean)

#variane calculation

variance = c(1104.8,906.7,1906.7,957.3,508.3,765.7,760.7,236.7,809.2,1390.5)

#sum(variance)

mean\_sample\_variance = sum(variance)/k

print(mean\_sample\_variance)

#estimate polpulation total

estimate\_pop = n\*(mean\_sample\_mean)

print(estimate\_pop)

#population mean

pop\_mean = estimate\_pop/N

#standard error

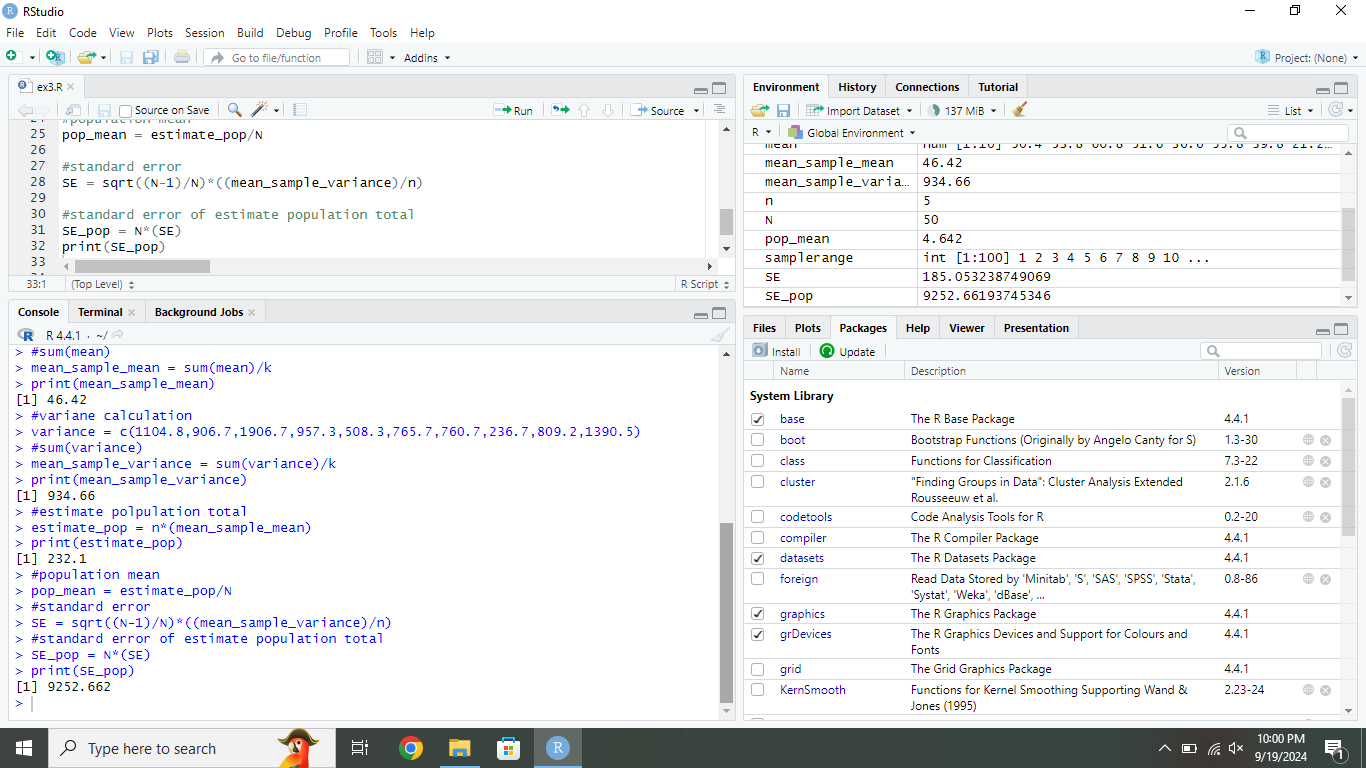
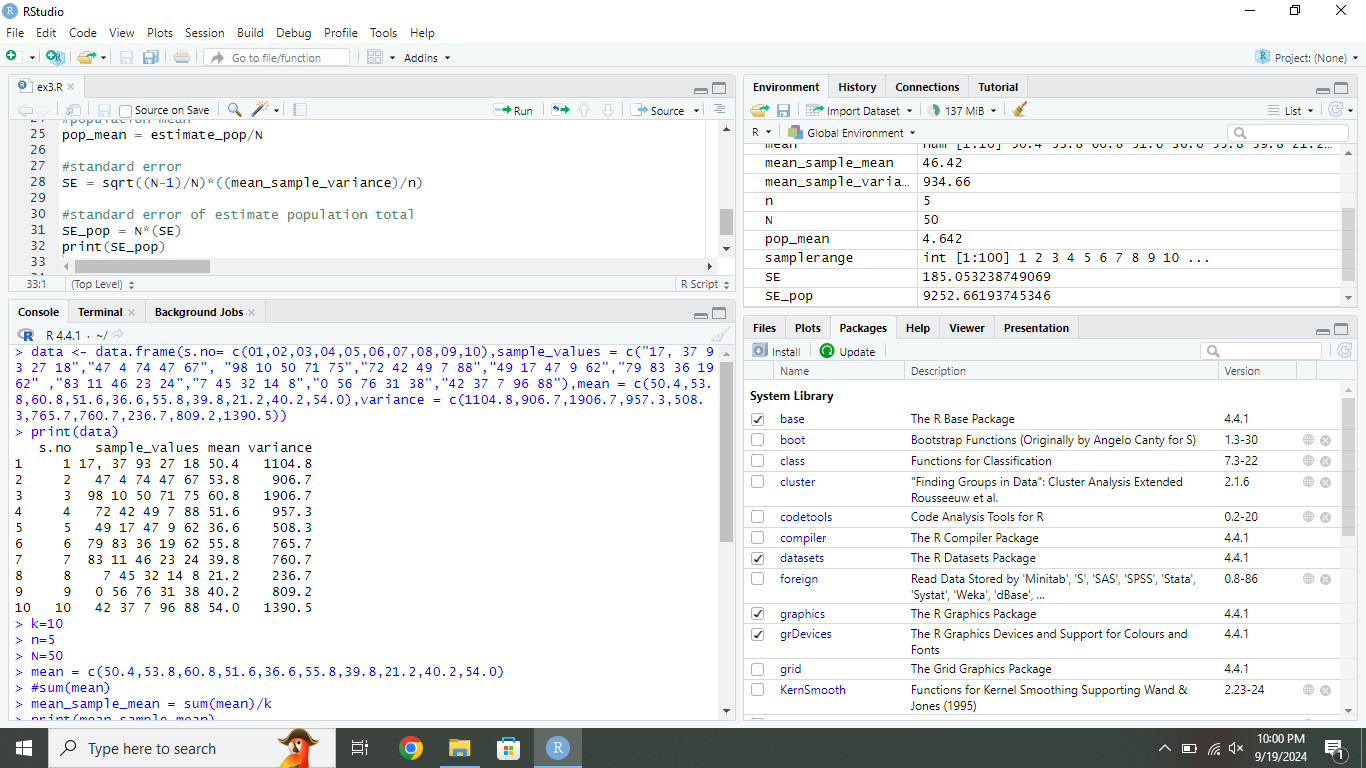
SE = sqrt((N-1)/N)\*((mean\_sample\_variance)/n)

#standard error of estimate population total

SE\_pop = N\*(SE)

print(SE\_pop)

**OUTPUT :**

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