# Author: McCollum; Purpose: Calculate T-Test

# Generate Dummy datasets for comparisons

x = rnorm(10)

y = rnorm(10)

x

[1] -0.2210476 0.2130500 -1.8329083 -2.4152449 -0.6269995 -0.8306481

[7] -0.6305090 0.7689807 0.2257075 -0.1577725

y

[1] -0.17188403 0.05276043 -0.40844134 0.09686183 -1.69283937 -0.18038259

[7] 1.08446958 -0.23735450 0.66463466 -1.26956411

# Plotting x and y to check for normal distribution

pts=seq(-4.5,4.5,length=100)

plots(pts,dt,col='red',type='l')

lines(density(x),col='green')

lines(denstiy(y),col='blue')

\*Did not work on compiler\*

# Apply T-Test Function

ttest=t.test(x,y)

ttest

Welch Two Sample t-test

data: x and y

t = 0.84295, df = 17.85, p-value = 0.4104

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-0.5864772 1.3716691

sample estimates:

mean of x mean of y

-0.2305482 -0.6231442