Lab 7

a) Consider the two data sets of two machines producing sample units machine 1 : (---) & machine 2 : (. --)
Tests whether the difference between the two means is statistically significant using two sample t-test formula (use t-distribution table). Write R code for carrying out the t test. Visualize the t test using suitable library function in R.

A) library (visualize).
   machine 1 = c (363, 404, 518, 521, 613, 587, 412, 469, 468, 496)

   machine 2 = c (536, 474, 556, 549, 479, 422, 414, 505, 505, 552).

mean (machine 1)
var (machine 1)
sd (machine 1)

mean (machine 2)
var (machine 2)
sd (machine 2)

#perform t test
t.test (x = machine 1, y = machine 2, var.equal = TRUE, conf.level = 0.95)

visualize.t (stat = c (-0.47061, 0.47061), df = 18, section =

"tails")