CORRELATION ANALYSIS

Aim: to implement and design correlation in r tool.

Formula:

R=n ((∑x y)- (∑x) (∑y))/ √(n∑x2-(∑x)2)[n∑y2-(∑y2)2]

Syntax:

diabetes<read.csv("C:/Users/Lenovo/Downloads/diabetes.csv")

diabetes<-table (diabetes $Age, diabetes1 $Insulin)

diabetes1

chis q. Test (diabetes1, simulate. p. value=TRUE)

output:

61 0 0 0 0 0 0 0 0 0 0 0

62 0 0 0 0 0 0 0 0 0 0 0

63 0 0 0 0 0 0 0 0 0 0 0

64 0 0 0 0 0 0 0 0 0 0 0

65 0 0 0 0 0 0 0 0 0 0 0

66 0 0 0 0 0 0 0 0 0 0 0

67 0 0 0 0 0 0 0 0 0 0 0

68 0 0 0 0 0 0 0 0 0 0 0

69 0 0 0 0 0 0 0 0 0 0 0

70 0 0 0 0 0 0 0 0 0 0 0

72 0 0 0 0 0 0 0 0 0 0 0

81 0 0 0 0 0 0 0 0 0 0 0

> chis q. test (diabetes1, simulate. p.

Pearson's Chi-squared test with simulated p-value (based replicates)

data: diabetes1 X-squared = 7561.7, d f = NA, p-value = 0.998