Q. 1)

	Mean	Standard Deviation	Size
GIRLS	89	4	50
BOYS	82	9	120

Diffrence Between Mean 7

S.D. Square for girls 0.32

S.D. Square for boys 0.675

Sqare Root of the total 0.997496867

T value 7.0175659

### **CALCULATION OF DEGREE OF FREEDOM**

S1^2/N1 0.32

S2^2/N2 0.675

Summation 0.995

Sqaure 0.990025

Remaining value -1.994155125

DF -0.496463383

### value of two tail test

## Q. 2)

	Cancer	Without Cancer	Total
Smoker	220	230	550
NON-Smoker	350	640	990
Total	680	910	1590

	Cancer	Without Cancer
Smoker	235.2201258	314.7798742
NON-Smoker	423.3962264	566.6037736

## Difference Square

	Cancer	Without Cancer
Smoker	231.6522289	7187.627072
NON-Smoker	5387.006052	5387.006052

# CHI-Square

	Cancer	Without Cancer
Smoker	0.984831669	22.83382027
NON-Smoker	12.72332089	9.507536489

Summation of all the values

46.04950931

Degree of Freedom

1

Critical Value = 3.841

46.049>3.841

rejec all the null hypothesis.