***TEST IN SPSS Regression Analysis***

**The file cholesterol.xls includes the observed values of the following variables: cholesterol level, glucose, age,and BodyMassIndex (ΒΜΙ), in a sample of 28 patients.**

**Please provide your answers after each question using SPSS statistical package.**

**Please provide**

**1.** the correlation coefficient matrix of these variables.

**2.** The results of applying linear regression with dependebt variable the CHOLESTEROL level and independent variable GLUCOSE.

 **3**. The scatter plot between Y and X

**4.** The 95% CI for the model parameters.

**5.** The 95% confidence interval for the expected level of cholesterol when glucose level is 110

**6.** The 95% individual confidence interval for the value of cholesterol when glucose level is 110

**7.** The results of applying multiple linear regression with dependent variable the CHOLESTEROL level and independent variables GLUCOSE **and age**

**8.** The 95% CI for the model parameters.

**9.** The 95% confidence interval for the expected level of cholesterol when glucose level is 110 and age is 60.

**10.** The 95% individual confidence interval for the value of cholesterol when glucose level is 110 and age is 60.

**11.** The results of applying multiple linear regression with dependent variable the CHOLESTEROL level and independent variables GLUCOSE, **age and BMI.**

***Please save the results under each question!***