1. For the purpose of this table,HDI is the Y variable, via observation from

the correlation table,LE2013 and HDI2012 are the most correlated

variables to Y.

1. LE2013 and HDI2012 are the most correlated variables to Y(HDI),while

MEANYRSCH and EYRSCH are rather correlated to Y.Yet,GNI2013 seems

less correlated with all the variables.

1. Yes, they are coincide with each other, since the correlations of each pair of variables

could be reflected by a scatter plot where we could see how convergent plots appears

to be in a line.

1. Residual std error is .002595 via 181 degree of freedom, which is small and good enough ,

R-sqr and R-sqr adjusted are the same--.9997, which is perfect, since they are both high and

With 0 difference

1. HDI2012 is definitely the most significant, as it is marked by 3 stars and almost 0 in p-value.

And all others are significantly greater than .05, which is not as significant.

1. MEANYRSCH is the 2nd variable, has 1.8e^-04 as its estimate coefficient—the slope, for every 1 more year added to the MEANYRSCH, HDI in 2013 would increase by 1.8e^-4 in index, holding the other X’s variables constant.
2. Residual std error is .002589 via 182 degree of freedom, which is small and good enough ,

R-sqr and R-sqr adjusted are still the same--.9997, which is perfect, since they are both high and with 0 difference

1. Only residual std errior drops insignificantly.Yes,I expect R-sqr and R-sqr adjusted are still the same--.9997, since they are the same at the very beginning, LE2013 itself contributes very little to the difference of R-sqr and R-sqr adjusted, as its p-value is .604, too high to be a significant explanatory variable.
2. MEANYRSCH has 1.298e^04 as its estimate coefficient—the slope, for every 1 more year added to the MEANYRSCH, HDI in 2013 would increase by 1.298e^04 in index, holding the other X’s variables constant.
3. I pick LE2013 as the explanatory variable conditioned by the other 4 variables and HDI as the Y variable still. The partial correlation coefficient of HDI and LE2013 after taking the effect of others into account is 0.03861117,
4. LE2013 contributes very little to the original model--model1 =lm(HDI ~ LE2013 + MEANYRSCH + EYRSCH + GNI2013 + HDI2012) .As the correlation associated with this plot and its estimate coefficient in model1 are consistent, cor(HDI,LE2013) without considering the others is 0.9014085 while the correlation coefficient of HDI and LE2013 after taking the effect of others into account is 0.03861117,which has significantly decreased, meaning that other variables has play a big part at predicting Y hat.

plot(LE2013,HDI) does not take other variables into account,thus producing a bigger slope in the graph, while plot (e3,e2)does so and therefore resulting a very flat slope indicating that other variables plays a big part at predicting Y hat.