## Module 3 Visual Graphics Design Page 1 of 2 Activity 3 — Creating a Basis for Visualization

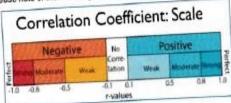
Please print this paper and keep it for reference purposes. It will be signed by the professor in charge to mark its completion and record.

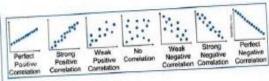
Group Name:	Quadcore			Date:
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Data Set			Series	
Internet Usage			Internet Us	age In the Philippines
Tourist Visitors			Touriet Vie	tore in the Phillippiane

- Find out the correlation of each data set chosen. For data sets with multiple series, choose only one to correlate with the
  other.
- 2. Display the scatterplot of the data pairs.
- 3. Then answer the following:

Regression Model	Equation	R-Value	Correlation Scale
Linear	y = 243.23x – 483729 for tourists y = 2.9945x - 5976.6 for Internet Users	0.98 0.96	Strong positive
Exponential	$y = 7E-54e^{0.0551x}$ $y = 1E-139e^{0.1609x}$	R <sup>2</sup> = 0.9886 and R <sup>2</sup> = 0.9236	Strong positive
Simple Power/ Logarithmic	y = 487697ln(x) - 4E+06 and y = 6006.6ln(x) - 45643	R <sup>2</sup> = 0.9799 and R <sup>2</sup> = 0.964	Strong positive
Hyperbolic			

Please note of the following in scaling the correlation





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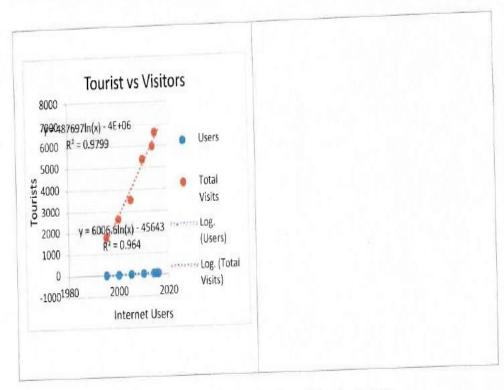
Prepared by: Bob Mathew D. Sunga

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Module 3 Visual Graphics Design Page 2 For each of the Regression Models, plot the scatterplot together with the curves it pertains. Label them properly.

	Linear		Exponential
Equation	y = 243.23x - 483729 for tourists y = 2.9945x - 5976.6 for Internet Users	Equation	y = 7E-54e <sup>0.0651x</sup> y = 1E-139e <sup>0.1909x</sup>
R Value	0.9802 and 0.9641	R Value	R <sup>2</sup> = 0.9886 and R <sup>2</sup> = 0.9236
	Tourist vs Visitors  3.23x - 483729 2 = 0.9802 Users  Total Visits  y = 2.9945x - 5976.6  R <sup>2</sup> = 0.9641 Linear {Users} 2000 2020 Internet Users	9000 8000 7000 R <sup>2</sup> = 0.98 6000 55000 6000 7000 7000 8000 7000 7000 8000 7000 8000 7000 8000 7000 8000 7000 8000	l lepre

	Simple Power/ Logarithmic	Hyperbolic	
Equation	y = 487697ln(x) - 4E+06 and y = 6006.6ln(x) - 45643	Equation	
R Value	R2 = 0.9799 and R2 = 0.964	R Value	



Which regression model best describes the data pairs that was chosen? Describe the model.

Based on the scatterplots above, the exponential model has the highest R value, which means, having the haccuracy from the other regression models.
accuracy from the other regression models.

Instructors signature:

By signing this, the members are marked as COMPLETE in this activity.

Please record promptly for future reference.