**Instructions**

Using the practice dataset provided (‘SoftwarePractice.csv’), complete the following tasks using your software of choice (SPSS, R, or SAS).

**Variable Codebook**

* *TV\_watching\_per\_week* : Number of hours a student spends watching TV per week.
* *Math\_score* : Score (number correct) on a 50-Item Math Exam.
* *number\_Classes\_missed* : Number of classes a student has missed.
* *Num\_hours\_sleep* : Number of hours of sleep a student gets on a typical night.
* *Institution\_type* : Type of institution a student attends.
	+ 0 = Public
	+ 1 = Private

You are interested in determining whether the population from which our ‘SoftwarePractice.csv’ sample data *TV\_watching\_per\_week* variable comes from is statistically significantly different from a population of graduate students with $μ=15$ and $σ=2$. Complete the six steps of hypothesis testing

1. Step 1: State the research hypothesis ($H\_{A}$) and null hypothesis ($H\_{0}$).
2. Step 2: Select the statistical test and the significance level.
	1. Statistical Test =
	2. Alpha = .05
3. Step 3: Select the sample and collect the data.
	1. Sample Size ($n$) =
	2. Sample Mean ($\overbar{X}$) =
	3. Population Mean ($μ$) =
	4. Population Standard Deviation ($σ$) =
4. Step 4: Find the region of rejection.
5. Step 5: Calculate the test statistic.
6. Step 6: Make the statistical decision to reject or fail to reject the null hypothesis.