**DSC520\_Week1\_Assignment1.2**

#3. Github repo URL for the Hello World tutorial:

<https://github.com/anjanibond/hello-world>

**#4.** Discovering Statistics Using R:

Task3: What is the level of measurement of the following variables ?

1. The number of downloads of different bands’ songs on iTunes.

***This should be a discrete ratio measure as you can only download whole songs and it’s a ratio as it has a true value of 0 (i.e., no downloads).***

1. The names of the bands that were downloaded.

***This should be a nominal variable measure as there will be multiple values and bands can be identified by their names but they does not necessarily have a meaningful order.***

1. The position in the iTunes download chart.

***This should be an ordinal variable measure as the position on iTunes chart has a meaningful order (i.e, they are ranked. Position 1 means highest downloads).***

1. The money earned by the bands from the downloads.

***This should be a continuous variable as money can be represented in fractional amounts.***

1. The weight of drugs bought by the bands with their royalties.

***This variable should be continuous and ratio. A guitarist can buy 50grams and singer can buy 200grams which is 4 times as much as guitarist does.***

1. The type of drugs bought by the bands with their royalties.

***This can be considered as categorical and nominal as the name of the drug might be meaningful but not necessarily have any order as such.***

1. The phone numbers that the bands obtained because of their fame.

***This is again categorical and nominal variable. Phone numbers don’t have any meaningful order.***

1. The gender of the people giving the bands their phone numbers.

***This should be categorical and binary as the gender of people fall into a category (male/female).***

1. The instruments played by the band members.

***This should be again a categorial and nominal variable. Though the instrument name have a meaning they don’t have any order.***

1. The time they had spent learning to play their instruments.

***This can be a continuous and ratio variable as time can be represented upto nano seconds.***

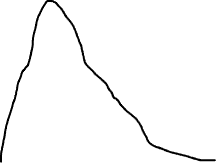
Task4: Say I own 857 CDs. My friend has written a computer program that uses a webcam to scan the shelves in my house where I keep my CDs and measure how many I have. His program says that I have 863 CDs. Define measurement error. What is the measurement error in my friend’s CD-counting device ?

***Since we already know the true value here which is 857 CDs and the program says 863. The measurement error here can be easily calculated as (863 – 857) -> 6 CDs.***

Task5: Sketch the shape of a normal distribution, a positively skewed distribution and a negatively skewed distribution.

Normal Distribution:

Postively Skewed Distribution:



Negatively Skewed Distribution

