**Assignment 02: Listing Ohio State’s Leading Causes of Death**

**DESCRIPTION**

**Problem Statement:**

You have been provided with a dataset that lists Ohio State’s leading causes of death from the year 2012. Using the two data points:

* Cause of deaths and
* Percentile

Draw a pie chart to visualize the dataset.

**Instructions to perform the assignment:**

Download the dataset “Ohio\_State\_data”. Use the data provided to create relevant and required variables.

**Assessment:**

**1: List the causes of death and percentile in Ohio State in the year 2012**

* Import matplotlib pyplot library.
* Insert the line of code ‘%matplotlib inline’ to display the plots in notebook.
* Create a variable ‘cause’ and load the data for causes of death in Ohio state from 2012
* Create a variable ‘percentile’ and the percentile for each cause of death respectively.

**2: Draw a pie chart using the two data points**

* Set the pie chart plot properties
  + Set the figure size to (10,10)
  + Set the Explode variable to largest pie in the dataset.
  + Using plt.pie (), set pie chart properties.
  + Set axis equal to draw pie as circle.
  + Set title of the pie chart as ‘Ohio State - 2012: Leading Causes of Deaths’.
  + Show the plot (pie chart) using plt.show ().

**3. Analyzing the cause of death by inferring the output:**

* 62.0% of deaths due to Chronic Disease
* 5% of deaths due to Unintentional injuries
* 4% of deaths due to Alzheimer
* 2% of deaths due to Influenza and Pneumonia
* 1% of death due to Sepsis
* 26.0% of deaths due to other uncategorized reasons.