Morgan State University
Department of Electrical & Computer Engineering

EEGR 409: C Programming Applications

Project 2.1

Objective:
Modify project 1:

- Implement a GetSignalParameters(double params[]) method (if you have not already done so) that is responsible for getting **validated signal** parameters
    - o Make sure to catch any exceptions that is generated from the user providing unexpected input that can crash the code
    - o In case of an exception, ask the user to reenter valid input
- Create an *abstract* **Signal** superclass
    - o Create **SineSignal**, **SquareSignal**, **SawtoothSignal** classes that are sub classes of **Signal**
    - o **Signal** class should hold all points being plotted
    - o **Signal** class should contain all the graphing functions necessary to plot the data points
    - o All subclasses of **Signal** are responsible for generating the appropriate points for the signal being created
    - o In the **main** method, you should be able to do something like:

        ```
        SineSignal ss = new SineSignal(params);
        ss.plot();
        ```