Applied Programming Concepts Assignment 1 Sophia Sistachs, Sophia 5/12/2024

Figure 1: Waterfall Method

For the Waterfall method I decided to start by creating the parent class followed by the inherited classes. Then, I moved onto the database and finally the GUI. This way allows for proper testing of each part, before moving on to the next stage.

```
Waterfall
    Part 1
        Create parent Class (Users)
           - with atributes:
                 first name + last name
            - with methods to display at it butes
   Create admin class:
     - Inherit Heribules from user class
     - Creake method for add course to system
                         amouceourse from system
                         add user
                         add student
                         remove student
                         Search roster
                         Print roster
    Crobe Instructor Class
        - Inhe t Stributes from user class
                                Print schedule
        - Create method for:
                               Prent class list
                              Jearch course
    Create Student Class
      - Inhe to Utributes from user class
      - Create method for : Search course
                            add course
                           drop course
                           gient schedule
        11
     Test System
Create a main function with a user interface to
 all the classes
                                      - Course name
                                      - time
                                      - instructor
Creak a dalabase of users: 100 students
                        -include first, last name, id
  Test Octobase
Create a graphical User Interface
 Test GUI
Go back to fix any issues in previous steps
```