Analysis

I) PredPray Class

    a. userFriend
- i. **Input:** Integers PreyCnt, PredatorCnt, and number of generations
- ii. **Output:** None
- iii. **Constraints:** Inputs must be integers
- iv. **Relationships:** Calls the lotkaVolterraModel method

    b. lotkaVolterraModel
- **i. Input:** Integers for PreyCnt, PredatorCnt, base generation, and number of generations
- ii. **Output:** Population levels for each generation
- iii. **Contraints:** Inputs must be integers
- iv. **Relationships:** Uses the dPreyCnt and dPredatorMethods

    c. dPreyCnt
- i. **Input:** Integers for a specific generations PreyCnt and PredCnt
- ii. **Output:** An integer representing a new generations prey population level
- iii. **Constraints:** Inputs must be integers
- iv. **Relationships:** Uses the lotkaVolterraModel's function for change in prey population over time

    d. dPredatorCnt
- i. **Input:** Integers for a specific generations PreyCnt and PredCnt
- ii. **Output:** An integer representing a new generations predator population level
- iii. **Constraints:** Inputs must be integers
- iv. **Relationships:** Uses the lotkaVolterraModel's function for change in predator population over time