Data / variables / info

Objective

Possible method / solution

Execution order

- **sequence** Execute a series of statements in order
- **branch** follow a specific path based on a defined condition
- **loop** Repeat a series of instructions until a condition is met

Public class Animal ← superclass

⇩

Subclasses

Hyena Lion Bear Tiger

⇩

Maintain a tally of animals ← Data structure

Hashmap Tree Map

Create java methods for inputting data from **arrivingAnimals** and outputting dateobject() representing animal birthday or arrival date

Define a class **Animal** with *attributes* (name, species)

Implement methods in the **Animal** class to set and get *attributes*

Create another class **animalManager** + create methods to handle inputting data from **arrivingAnimals** + calculating birthday or arrival date

Arriving animals txt | Animal names txt | Zoopopulation txt ← file I/O read + write

Open **arrivingAnimals.txt** and **animalNames.txt** ← filereader / bufferedreader

⇩

Process (read) + Extract (write / output) **Arriving animals** ← scanner file object

Use file I/o read/write to files employing data structures to organize zoo data into information

Example output:

```
"4 year old female hyena, born in spring, tan color, 70 pounds, from frigid park, Tunisia"
```

← arraylist

← loop?

create a class to represent animals in the zoo, store each animal's information in an ArrayList or any suitable data structure, read from a file containing zoo data, and write to a file with formatted information.

Output categorize animals into habitats creating an organized snapshot of the zoo population

Example output:

```
"HY01; Kamari; birthdate Mar 21, 2018; tan color; female; 70 pounds; from fragua park;
Tunisia; arrived mar 5,2024"
```

?