The project I implemented is a demonstration of my knowledge of the Java programming language. Initially, it covers the requested topic, which is a zoo management application that records information about animals. The program includes a basic Animal class, which is abstract as instances cannot be created, and it defines the required fields (id, name, homotaxy, weight, and age) that are initialized through a constructor, except for the id, which is automatically generated when a new animal is added. In addition, there are 13 classes for different animals that inherit from Animal, and each animal class has a unique and distinct characteristic.

As for the various functions that are requested, I created a separate Zoo class, which implements the menu that is displayed in the console. The menu is managed using switch statements and provides 9+1 functionalities:

- 1. Display the available animals
- 2. Add a new animal
- 3. Search for an animal by name
- 4. Search for an animal by ID
- 5. Edit an animal by ID
- 6. Delete an animal by ID
- 7. Play with the animals
- 8. Get animal information from Wikipedia and display it as ASCII art
- 9. Exit
- 10. (extra) Display an ASCII landscape if the number 141 is entered (the first 3 digits of the number pi)

Various functions are achieved through different auxiliary methods, most of which rely on traversing a list via a foreach loop, as all animals are stored in a static ArrayList of type Animal since it is a superclass for each animal class. The individual functions are further analyzed within the code comments. Additionally, there is an interface that the Animal implements, and therefore, the remaining classes also extend the Animal. The interface contains two methods: one for the sound of each animal and one that displays the rarity of the animal in the specific zoo based on how many instances of the animal class we have created.

Furthermore, most methods are static since they are called in the main, which is static, and for this reason, every time a static method is called, I create an anonymous object that is used only for the method, and for this reason, I do not store any reference to it.

Continuing with the console output, I used the following try-catch block:

```
try {
    Thread.sleep(5000);
} catch (InterruptedException e) {
    e.printStackTrace();
}
```

This stops the execution of the current thread for as many milliseconds as we define. This way, I managed to display information for a specific time on the console before the program execution continues, which is in a while(true) loop that only terminates if the user enters incorrect information in a field or presses 9 in the menu, which terminates the program. Each time the program runs, 10 indicative snapshots of animals are created, each from a different class.

Finally, the code is quite long (~3000 lines) due to the many classes with different characteristics, so each one required different handling. I did not use a GUI as I devoted a lot of time to creating a complete console experience, while also wanting to showcase the power of ASCII art and my aesthetics, which is why all output flows (console appearances) are written in lowercase and no capital letters (personal preference).

Screenshots









