DAY 24:

ASSIGNMENT 2:

Task 4: Lambda Expressions

Implement a Comparator for a Person class using a lambda expression, and sort a list of Person objects by their age..

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        List<Person> people = new ArrayList<>();
        people.add(new Person("Alice", 30));
        people.add(new Person("Bob", 25));
        people.add(new Person("Charlie", 35));

        people.sort((p1, p2) -> Integer.compare(p1.getAge(), p2.getAge()));

        System.out.println(people);
    }
}

class Person {
```

```
    private String name;
    private int age;

    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }

    public int getAge() {
        return age;
    }

    @Override
    public String toString() {
        return "Person{name='" + name + "', age=" + age + '}';
    }
}
```

In this example:

- We define a Person class with a name and age field.

- We create a list of Person objects and add some instances to it.

- We use the sort() method of List with a lambda expression (p1, p2) -> Integer.compare(p1.getAge(), p2.getAge()) to sort the list of Person objects by their age.

- Finally, we print the sorted list.