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..

ANSWER:

```
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));


        Collections.sort(people, Comparator.comparingInt(Person::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 Collections.sort() method with a lambda expression Comparator.comparingInt(Person::getAge) to sort the list of Person objects by their age.

- Finally, we print the sorted list.