

## Task 2: Lambda Expressions

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

ANS:

```
package com.Day24;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
class person {
    private String name;
    private int age;
    // Constructor
    public person(String name, int age) {
        this.name = name;
        this.age = age;
    }
    // Getters
    public String getName() {
        return name;
    }
    public int getAge() {
        return age;
    }
    // toString method for printing
    @Override
    public String toString() {
        return name + ": " + age;
    }
}

public class Task2{
    public static void main(String[] args) {
        // Step 2: Create a list of Person objects
        List<person> people = new ArrayList<>();
        people.add(new person("Alice", 30));
        people.add(new person("Bob", 25));
        people.add(new person("Charlie", 35));
        people.add(new person("Diana", 20));
        // Step 3: Use a lambda expression to sort the list by age
        Collections.sort(people, Comparator.comparingInt(person::getAge));
        // Print the sorted list
        people.forEach(System.out::println);
    }
}
```