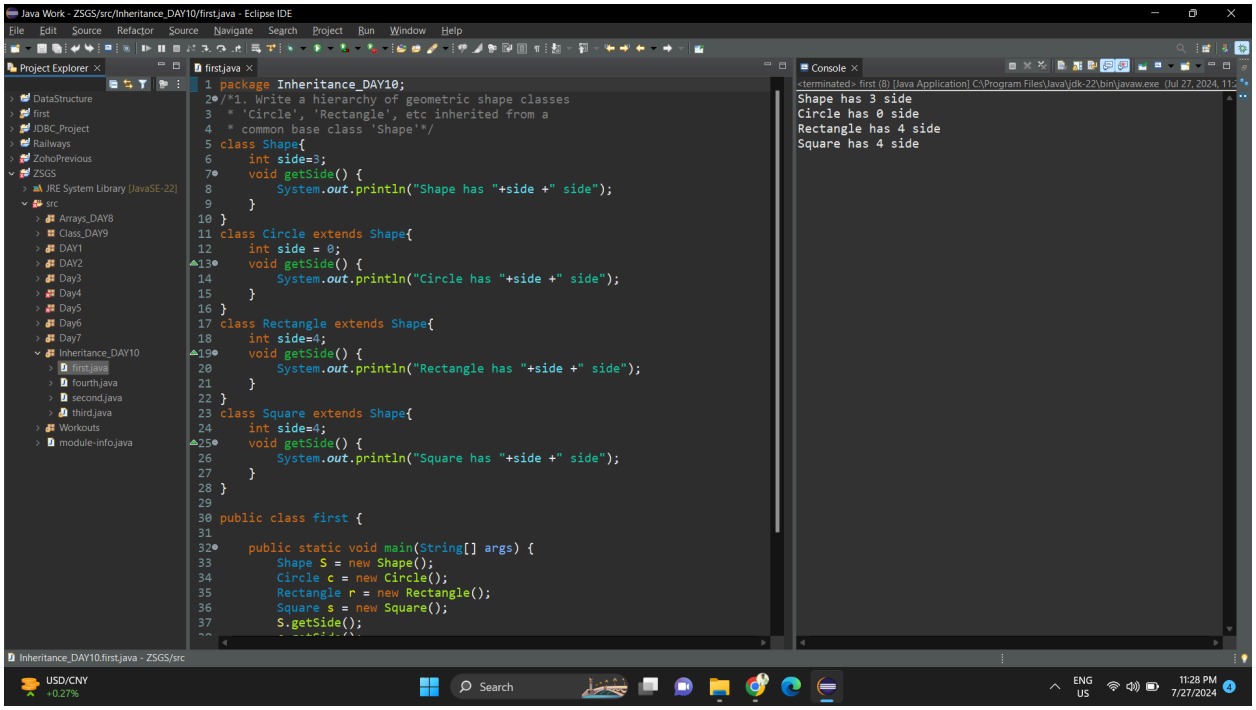
Java Work - ZSGS/src/Inheritance_DAY10/first.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
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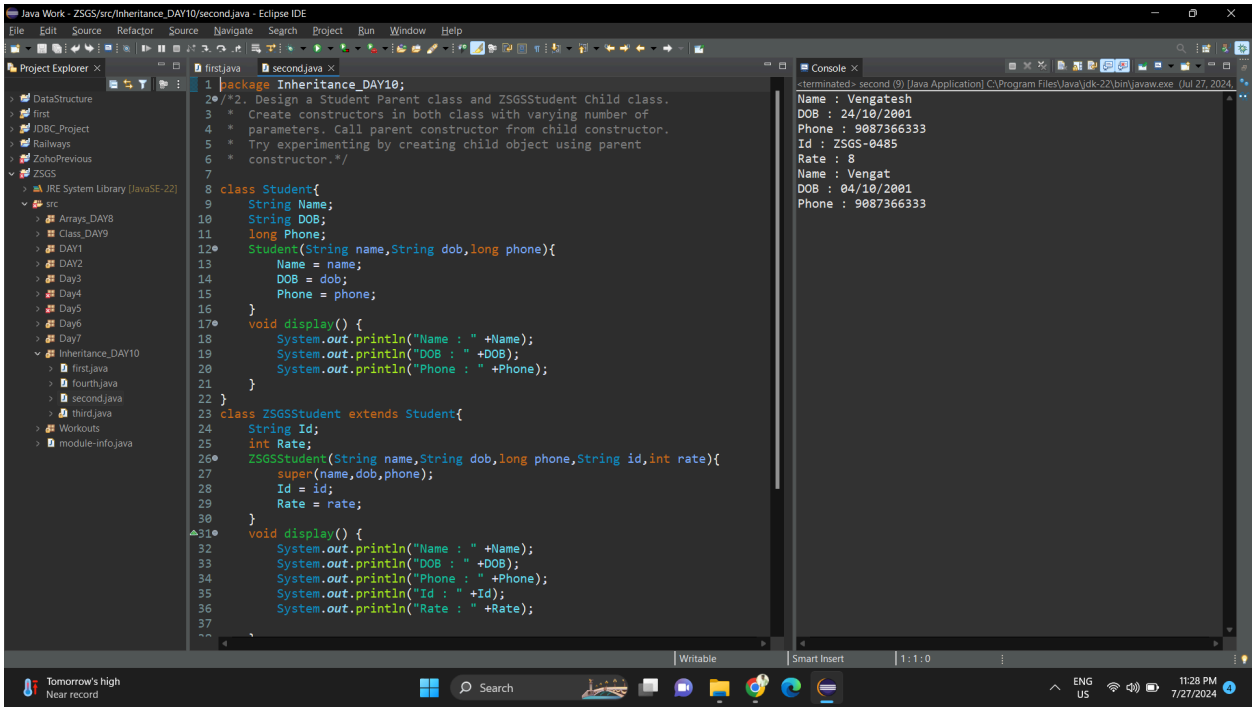
Inheritance_DAY10
first.java
fourth.java
second.java
third.java
Workouts
module-info.java
first.java
1 package Inheritance_DAY10;
2 /*1. Write a hierarchy of geometric shape classes
3 * 'Circle', 'Rectangle', etc inherited from a
4 * common base class 'Shape'*/
5 class Shape{
6 int side=3;
7 void getSide() {
8 System.out.println("Shape has "+side +" side");
9 }
10 }
11 class Circle extends Shape{
12 int side = 0;
13 void getSide() {
14 System.out.println("Circle has "+side +" side");
15 }
16 }
17 class Rectangle extends Shape{
18 int side=4;
19 void getSide() {
20 System.out.println("Rectangle has "+side +" side");
21 }
22 }
23 class Square extends Shape{
24 int side=4;
25 void getSide() {
26 System.out.println("Square has "+side +" side");
27 }
28 }
29
30 public class first {
31
32 public static void main(String[] args) {
33 Shape S = new Shape();
34 Circle c = new Circle();
35 Rectangle r = new Rectangle();
36 Square s = new Square();
37 S.getSide();
Console
<terminated> first (8) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 27, 2024, 11:
Shape has 3 side
Circle has 0 side
Rectangle has 4 side
Square has 4 side
Inheritance_DAY10.first.java - ZSGS/src
USD/CNY
+0.27%
Search
ENG
US
11:28 PM
7/27/2024


Java Work - ZSGS/src/Inheritance_DAY10/second.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
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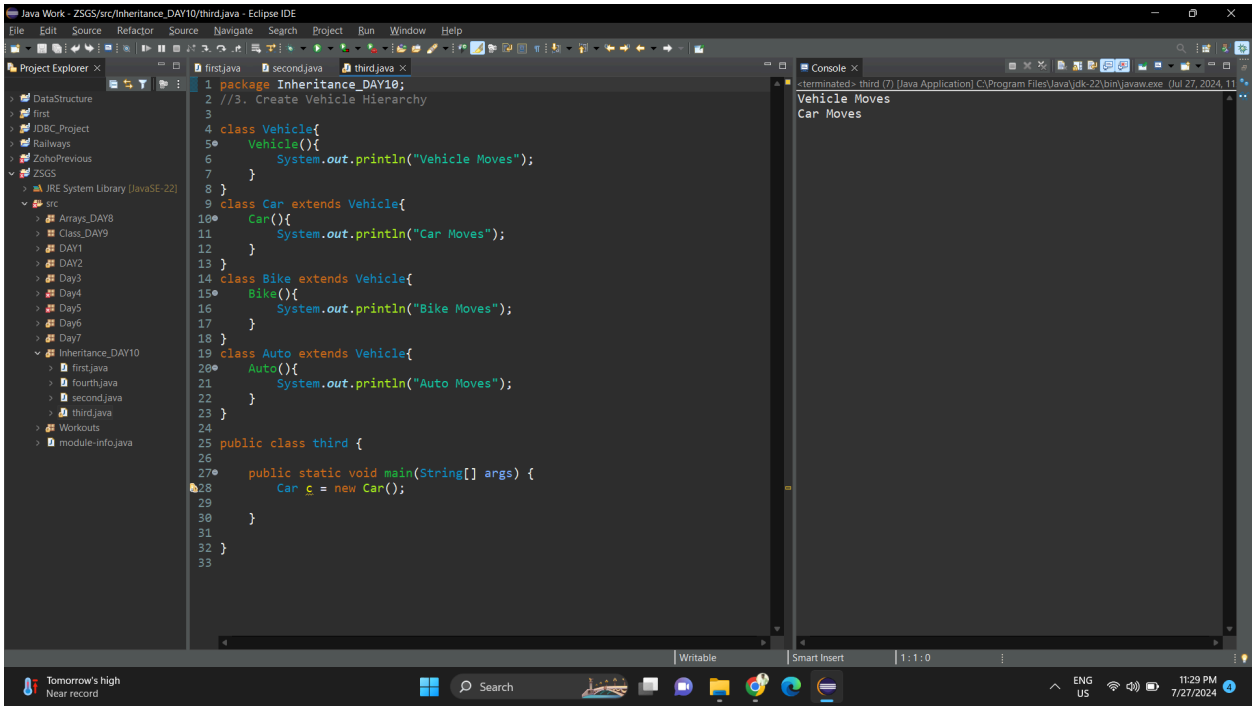
Day7
Inheritance_DAY10
first.java
fourth.java
second.java
third.java
Workouts
module-info.java
first.java
second.java
1 package Inheritance_DAY10;
2 /*2. Design a Student Parent class and ZSGSStudent Child class.
3 * Create constructors in both class with varying number of
4 * parameters. Call parent constructor from child constructor.
5 * Try experimenting by creating child object using parent
6 * constructor.*/
7
8 class Student{
9 String Name;
10 String DOB;
11 long Phone;
12 Student(String name,String dob,long phone){
13 Name = name;
14 DOB = dob;
15 Phone = phone;
16 }
17 void display() {
18 System.out.println("Name : " +Name);
19 System.out.println("DOB : " +DOB);
20 System.out.println("Phone : " +Phone);
21 }
22 }
23 class ZSGSStudent extends Student{
24 String Id;
25 int Rate;
26 ZSGSStudent(String name,String dob,long phone,String id,int rate){
27 super(name,dob,phone);
28 Id = id;
29 Rate = rate;
30 }
31 void display() {
32 System.out.println("Name : " +Name);
33 System.out.println("DOB : " +DOB);
34 System.out.println("Phone : " +Phone);
35 System.out.println("Id : " +Id);
36 System.out.println("Rate : " +Rate);
37
Console
<terminated> second (9) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 27, 2024,
Name : Vengatesh
DOB : 24/10/2001
Phone : 9087366333
Id : ZSGS-0485
Rate : 8
Name : Vengat
DOB : 04/10/2001
Phone : 9087366333
Writable
Smart Insert
1 : 1 : 0
Tomorrow's high
Near record
Search
ENG
US
11:28 PM
7/27/2024


Java Work - ZSGS/src/Inheritance_DAY10/third.java - Eclipse IDE
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first.java
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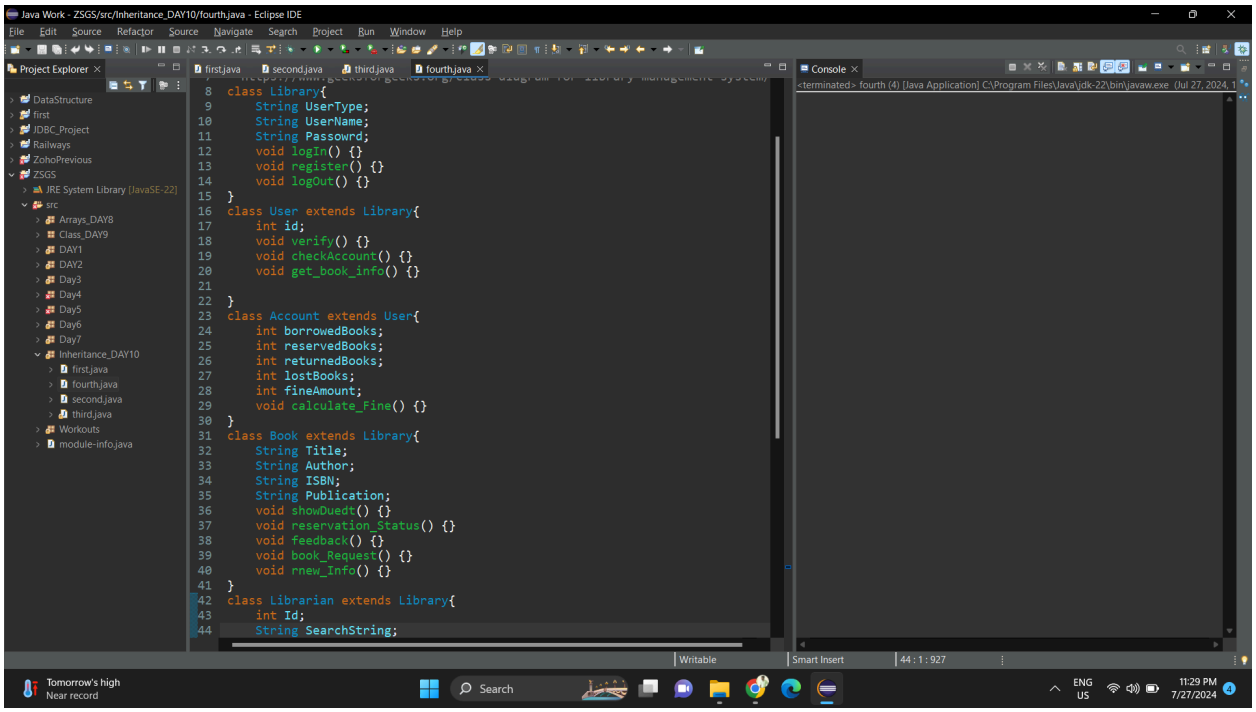
second.java
third.java
Workouts
module-info.java
first.java
second.java
third.java
1 package Inheritance_DAY10;
2 //3. Create Vehicle Hierarchy
3
4 class Vehicle{
5 Vehicle(){
6 System.out.println("Vehicle Moves");
7 }
8 }
9 class Car extends Vehicle{
10 Car(){
11 System.out.println("Car Moves");
12 }
13 }
14 class Bike extends Vehicle{
15 Bike(){
16 System.out.println("Bike Moves");
17 }
18 }
19 class Auto extends Vehicle{
20 Auto(){
21 System.out.println("Auto Moves");
22 }
23 }
24
25 public class third {
26
27 public static void main(String[] args) {
28 Car c = new Car();
29
30 }
31
32 }
33
Console
<terminated> third (7) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 27, 2024, 11
Vehicle Moves
Car Moves
Writable
Smart Insert
1 : 1 : 0
Tomorrow's high
Near record
Search
ENG
US
11:29 PM
7/27/2024


Java Work - ZSGS/src/Inheritance_DAY10/fourth.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
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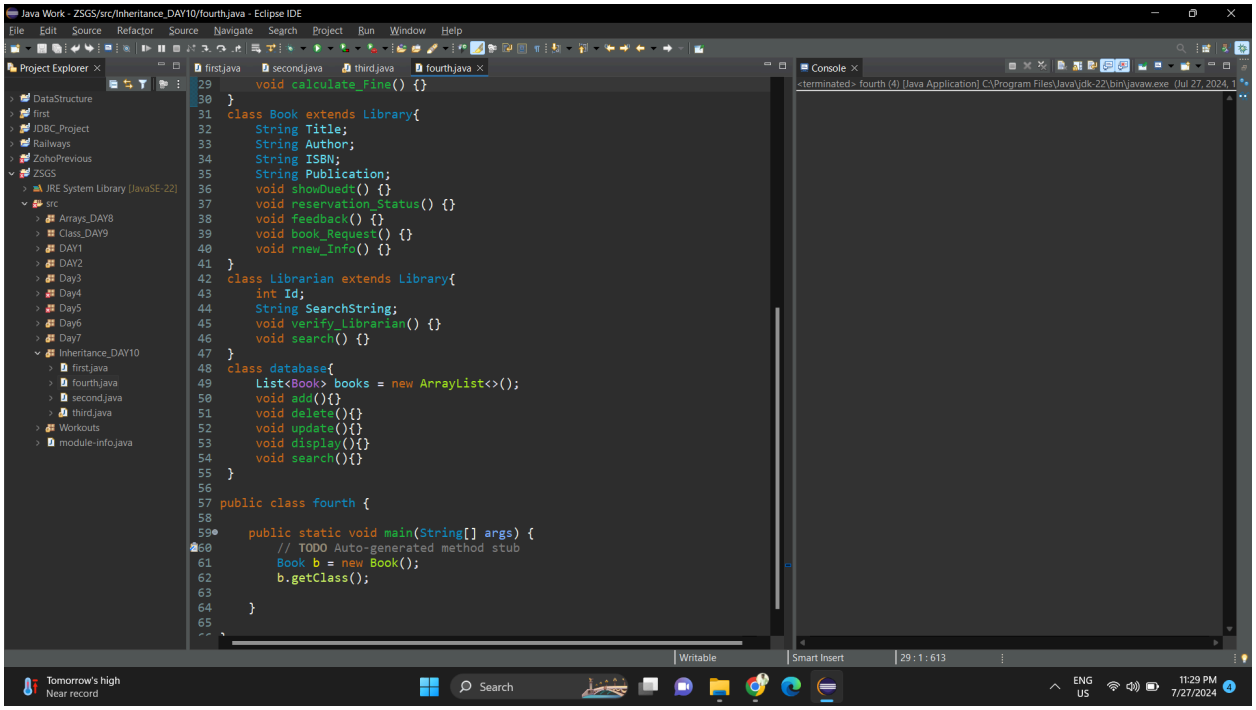
first.java
fourth.java
second.java
third.java
Workouts
module-info.java
first.java
second.java
third.java
fourth.java
8 class Library{
9 String UserType;
10 String UserName;
11 String Passowrd;
12 void logIn() {}
13 void register() {}
14 void logOut() {}
15 }
16 class User extends Library{
17 int id;
18 void verify() {}
19 void checkAccount() {}
20 void get_book_info() {}
21
22 }
23 class Account extends User{
24 int borrowedBooks;
25 int reservedBooks;
26 int returnedBooks;
27 int lostBooks;
28 int fineAmount;
29 void calculate_Fine() {}
30 }
31 class Book extends Library{
32 String Title;
33 String Author;
34 String ISBN;
35 String Publication;
36 void showDuedt() {}
37 void reservation_Status() {}
38 void feedback() {}
39 void book_Request() {}
40 void rnew_Info() {}
41 }
42 class Librarian extends Library{
43 int Id;
44 String SearchString;
Console
<terminated> fourth (4) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 27, 2024, 1
Writable
Smart Insert
44 : 1 : 927
Tomorrow's high
Near record
Search
ENG
US
11:29 PM
7/27/2024


Java Work - ZSGS/src/Inheritance_DAY10/fourth.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
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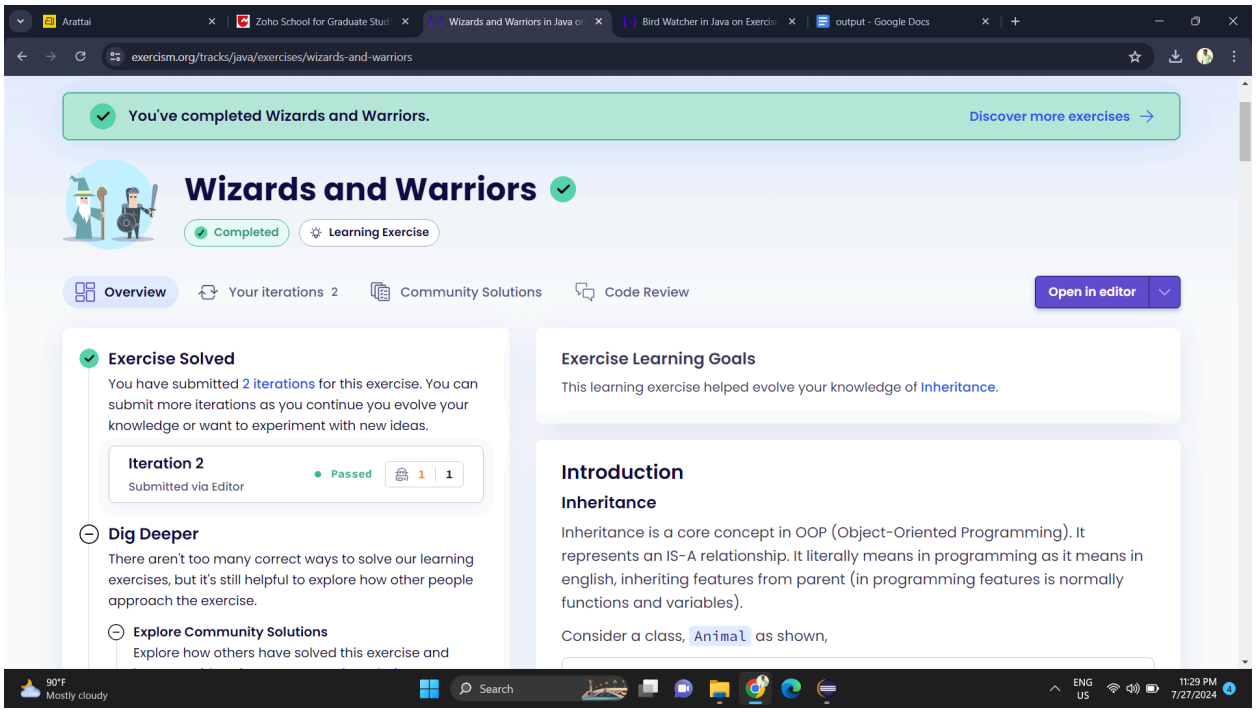
Inheritance_DAY10
first.java
fourth.java
second.java
third.java
Workouts
module-info.java
first.java
second.java
third.java
fourth.java
29 void calculate_Fine() {}
30 }
31 class Book extends Library{
32 String Title;
33 String Author;
34 String ISBN;
35 String Publication;
36 void showDuedt() {}
37 void reservation_Status() {}
38 void feedback() {}
39 void book_Request() {}
40 void rnew_Info() {}
41 }
42 class Librarian extends Library{
43 int Id;
44 String SearchString;
45 void verify_Librarian() {}
46 void search() {}
47 }
48 class database{
49 List<Book> books = new ArrayList<>();
50 void add(){}
51 void delete(){}
52 void update(){}
53 void display(){}
54 void search(){}
55 }
56
57 public class fourth {
58
59 public static void main(String[] args) {
60 // TODO Auto-generated method stub
61 Book b = new Book();
62 b.getClass();
63
64 }
65
Console
<terminated> fourth (4) [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (Jul 27, 2024, 1
Writable
Smart Insert
29 : 1 : 613
Tomorrow's high
Near record
Search
ENG
US
11:29 PM
7/27/2024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Bird Watcher in Java on Exercism
output - Google Docs
exercism.org/tracks/java/exercises/wizards-and-warriors
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Discover more exercises
Wizards and Warriors
Completed
Learning Exercise
Overview
Your iterations 2
Community Solutions
Code Review
Open in editor
Exercise Solved
You have submitted 2 iterations for this exercise. You can submit more iterations as you continue you evolve your knowledge or want to experiment with new ideas.
Iteration 2
Submitted via Editor
Passed
1 1
Dig Deeper
There aren't too many correct ways to solve our learning exercises, but it's still helpful to explore how other people approach the exercise.
Explore Community Solutions
Explore how others have solved this exercise and
Exercise Learning Goals
This learning exercise helped evolve your knowledge of Inheritance.
Introduction
Inheritance
Inheritance is a core concept in OOP (Object-Oriented Programming). It represents an IS-A relationship. It literally means in programming as it means in english, inheriting features from parent (in programming features is normally functions and variables).
Consider a class, Animal as shown,
90°F
Mostly cloudy
Search
ENG
US
11:29 PM
7/27/2024