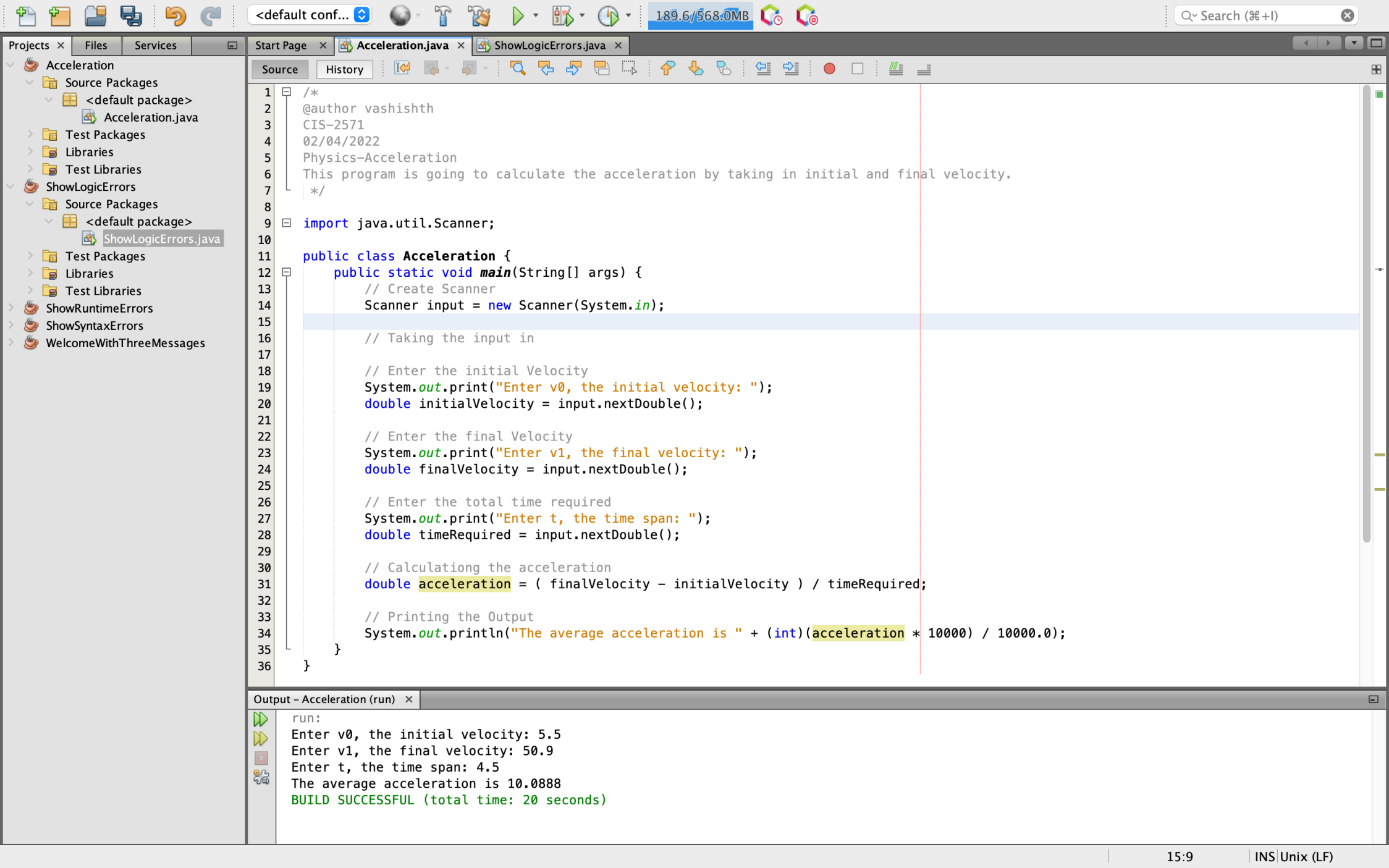
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History
/*
@author vashishth
CIS-2571
02/04/2022
Physics-Acceleration
This program is going to calculate the acceleration by taking in initial and final velocity.
*/
import java.util.Scanner;
public class Acceleration {
public static void main(String[] args) {
// Create Scanner
Scanner input = new Scanner(System.in);
// Taking the input in
// Enter the initial Velocity
System.out.print("Enter v0, the initial velocity: ");
double initialVelocity = input.nextDouble();
// Enter the final Velocity
System.out.print("Enter v1, the final velocity: ");
double finalVelocity = input.nextDouble();
// Enter the total time required
System.out.print("Enter t, the time span: ");
double timeRequired = input.nextDouble();
// Calculationg the acceleration
double acceleration = (finalVelocity - initialVelocity) / timeRequired;
// Printing the Output
System.out.println("The average acceleration is " + (int)(acceleration * 10000) / 10000.0);
}
}
Output - Acceleration (run)
run:
Enter v0, the initial velocity: 5.5
Enter v1, the final velocity: 50.9
Enter t, the time span: 4.5
The average acceleration is 10.0888
BUILD SUCCESSFUL (total time: 20 seconds)
15:9
INS
Unix (LF)