package carrace;

import java.util.Random;

/\*\*

\*

\* @author Daniel

\*/

public class CarRace {

int year, speed;

String model, make;

// default constructor

public CarRace(){

year = 2000;

model = "";

make = "";

speed = 0;

}

// non-default constuctor

public CarRace(int aYear, String aModel, String aMake, int aSpeed){

this.year = aYear;

this.model = aModel;

this.make = aMake;

this.speed = aSpeed;

}

public int getYear() {

return year;

}

public void setYear(int year) {

this.year = year;

}

public int getSpeed() {

return speed;

}

public void setSpeed(int speed) {

this.speed = speed;

}

public String getModel() {

return model;

}

public void setModel(String model) {

this.model = model;

}

public String getMake() {

return make;

}

public void setMake(String make) {

this.make = make;

}

public void accelerate(int speed){

Random randomNum = new Random();

int ranNum;

ranNum = randomNum.nextInt(26) + 5;

speed += ranNum;

}

public void brake(int speed){

Random randomNum = new Random();

int ranNum;

ranNum = randomNum.nextInt(26) + 5;

speed -= ranNum;

}

public String toString(){

return "The year of the car is " + year + ", the model of the car is " + model + ", the make of the car is " + make + ", and the initial speed is " + speed + ".\n";

}

}

package carrace;

import java.util.Scanner;

/\*\*

\*

\* @author Daniel

\*/

public class CarRaceSim {

public static CarRace car1;

public static CarRace car2;

public static void main(String[] args) {

System.out.println("Welcome to the car simulation program!");

System.out.println("You will now begin to create your two cars to race, good luck!\n\n");

createCar(1);

createCar(2);

race(car1, car2);

}

public static void createCar(int carCreation){

Scanner keyboard = new Scanner(System.in);

int year = 0;

String model;

String make;

int speed = 0;

do{

if (carCreation == 1)

System.out.println("Create your first car!");

else

System.out.println("Create your second car!");

System.out.println("What year is your car?");

year = keyboard.nextInt();

System.out.println("What model is your car?");

model = keyboard.next();

System.out.println("What make is your car?");

make = keyboard.next();

System.out.println("What speed is your car initially starting at? (0-60)");

speed= keyboard.nextInt();

if(speed < 0){

System.out.println("You can not begin at a negative speed, please choose between 0-60.");

}

else if(speed > 60){

System.out.println("You can not start above 60, please choose between 0-60.");

}

}while(speed <= 0 && speed >= 60);

if(carCreation == 1){

car1 = new CarRace(year, model, make, speed);

System.out.println(car1);

}

else{

car2 = new CarRace(year, model, make, speed);

System.out.println(car2);

}

}

public static void race(CarRace carUno, CarRace carDue){

for(int i = 1; i <= 5; i++){

System.out.println("Lap " + i);

System.out.println("Car 1's stats:");

car1.accelerate(car1.getSpeed());

System.out.println(car1.getSpeed());

car1.brake(car1.getSpeed());

System.out.println(car1.getSpeed());

System.out.println("Car 2's stats:");

car2.accelerate(car2.getSpeed());

System.out.println(car2.getSpeed());

car2.brake(car2.getSpeed());

System.out.println(car2.getSpeed() + "\n");

}

}

}

In your accelerate() function you assign a value to the local variable speed. What you want to assign to is the class variable this.speed, just like you do in your other methods (like setMake()for example).

In other words change

speed += ranNum;

to

this.speed += ranNum;

Do the same for your brake function.

import java.util.\*;

public class cargame {

static int state = 0; // 0 = off, 1 = on

static int place = 0; // California = 1, Texas = 2, Illinois = 3, Florida = 4

static Scanner sc = new Scanner(System.in);

static String answer;

public static void main(String[] args) {

System.out.println("Do you want to to turn the car on? (Yes/No)");

answer = sc.next();

if(answer.equalsIgnoreCase("yes")) {

changeState();

}

else {

terminate();

}

System.out.println("Where do you want to drive to? (California, Texas, Illinois, Florida)");

answer = sc.next();

if(answer.equalsIgnoreCase("california")) {

place = 1;

System.out.println("You drive across the United States to California.");

}

else if(answer.equalsIgnoreCase("texas")) {

place = 2;

System.out.println("You drive to the Southern United States and enter Texas.");

}

else if(answer.equalsIgnoreCase("illinois")) {

place = 3;

System.out.println("You drive to the Northern Untied States and evter Illinois.");

}

else if(answer.equalsIgnoreCase("florida")) {

place = 4;

System.out.println("You drive to the Gulf of Mexico and enter Florida.");

}

else {

terminate();

}

}

public static void changeState() {

if(state == 0) {

state = 1;

System.out.println("The car has been turned on.");

}

else {

state = 0;

System.out.println("The car has been turned off.");

}

}

public static void terminate() {

System.out.println("The program has ended due to a choice you have made or an invalid choice you have made");

System.exit(0);

}

}