1. page 398 #5

public class FindTheError{

public int square(int number){

return number\*number;

}

public int square(int number){

return number\*number;

}

}

1. page 399 #3
   1. square(){

sideLength=0;

};

* 1. square(double a){

sideLength=a;

}

1. page 399 #3,5,10

3. Accessor methods are methods that are used to retrieve data within objects. Mutators methods are methods that can change data within objects.

5. Private fields are accessible only by the class in which it was declared.

10. Default constructor

1. page 400 #2

import java.util.\*;

public class car{

private int yearModel;

private String make;

private int speed;

car(){

speed = 0;

}

car(int yM, String m){

yearModel=yM;

make=m;

speed = 0;

}

public int getYearModel(){

return yearModel;

}

public String getMake(){

return make;

}

public int getSpeed(){

return speed;

}

public void accelerate(){

speed+=5;

}

public void brake(){

speed-=5;

}

public static void main(String[] args){

car a= new car(1995,"toyota");

for (int i = 0; i<5;i++){

a.accelerate();

System.out.println("Vroom Vroom\n");

}

System.out.println("You are going");

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

for (int i = 0; i<5;i++){

a.brake();

System.out.println("SCREEECHH\n");

}

System.out.println("You are going");

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

}

}

1. page 404 #12

import java.util.\*;

public class Coin{

private String sideUp;

Coin(){

sideUp="";

}

public void toss(){

Random r=new Random();

int rI=r.nextInt(2);

/\*if (r%1=0){

sideUp="Heads";

}

else{

sideUp="tales";

}

\*/

sideUp = (rI==0)?"Heads":"Tails";

}

public String getSideUp(){

return sideUp;

}

public static void main(String[] args){

Coin a = new Coin();

int h=0;

int t=0;

a.toss();

System.out.println(a.getSideUp());

//once toss

if(a.getSideUp()=="Heads"){

h++;

}

else{

t++;

}

//20 tosses

for(int i =0; i<20;i++){

a.toss();

System.out.println(a.getSideUp());

if(a.getSideUp()=="Heads"){

h++;

}

else{

t++;

}

}

//display h and t

System.out.println("Heads: "+h+"\nTails: "+t);

}

}