1. page 552 find the error 1 and 2

public class MyClass{

private **static** int x;

private **static** double y;

public static void setValues(int a, double b){

x=a;

y=b;

}

}

ii. public class MyClass{

public static void main(String[] args){

enum Coffee{MEDIUM,DARK,DECAF}

Coffee myCup=DARK;

switch(myCup){

case Coffee.MEDIUM: System.out.println("Mild ");break;

case Coffee.DARK: System.outprintln("Strong flavor"); break;

case Coffee.DECAF: System.out.println("Won't keep you awake."); break;

default: System.out.println("Never heard of it");**break;**

}

}

}

1. page 553 algorithm workbench ex 1

public class Circle{

private double radius;

public Circle(double r){

radius=r;

}

public double getArea(){

return Math.PI\*radius\*radius;

}

public double getRadius(){

return radius;

}

public String toString(){

String b = "";

b=b+"Radius: "+Double.toString(radius)+"\nArea of a circle: "+Double.toString(getArea());

return b;

}

public Boolean equals(Circle a){

if (a.radius == radius){

return true;

}

else{

return false;

}

}

public Boolean greaterThan(Circle a){

if(a.getArea()>getArea()){

return true;

}

else{

return false;

}

}

}

1. page 553 ex 10 **EDITION 5 PG 555 Short Answer?**
   1. POODLE

BOXER

TERRIER

* 1. 0

1

2

c. BOXER is NOT greater than TERRIER

1. page 556 ex3 carpet calculator

**RoomDimensions.java**

public class RoomDimensions{

private double length;

private double width;

public RoomDimensions(double a, double b){

length = a;

width = b;

}

public double getArea(){

return length\*width;

}

}

**RoomCarpet.java**

import java.util.\*;

public class RoomCarpet{

private RoomDimensions size;

private double carpetCost;

public RoomCarpet(RoomDimensions a,double b){

size = a;

carpetCost=b;

}

public double getTotalCost(){

return carpetCost\*size.getArea();

}

// returns string version of a double

public String toString(double a){

return Double.toString(a);

}

public static void main(String[] args){

System.out.println("Dimensions input height and width:");

Scanner sc = new Scanner(System.in);

Double v = sc.nextDouble();

Double c = sc.nextDouble();

System.out.println("Price per square foot");

Double j = sc.nextDouble();

RoomDimensions rd= new RoomDimensions(v,c);

RoomCarpet rc=new RoomCarpet(rd,j);

System.out.println("Total Cost: "+rc.getTotalCost());

}

}

1. pg 560 ex 10

**Fuel Gauge.java**

import java.util.\*;

public class FuelGauge{

int fuel;

public FuelGauge(){

fuel = 0;

}

public void setFuel(){

do{

System.out.println("How much fuel is in the tank?");

Scanner sc = new Scanner(System.in);

int l = sc.nextInt();

fuel = l;

if(fuel>15||fuel<0){

System.out.println("Try again");}

}while(fuel>15||fuel<0);

}

public int getFuel(){

return fuel;

}

public void addFuel(){

do{

System.out.println("Adding a gallon of fuel");

fuel++;

if(fuel>15){

System.out.println("Try again");}

}while(fuel>15);

}

//lose one gallong, min 0

public void useFuel(){

do{

System.out.println("Using a gallon of fuel");

fuel--;

if(fuel<0){System.out.println("Try again");}

}while(fuel<0);

}

}

**Odometer.java**

import java.util.\*;

public class Odometer{

private int mileage;

public Odometer(){

mileage = 0;

}

public void setMileage(){

System.out.println("Whats the mileage of the car?");

Scanner sc = new Scanner(System.in);

int l = sc.nextInt();

mileage = l;

}

public int getMileage(){

return mileage;

}

public void addMileage(){

mileage++;

if(mileage>999999){mileage=0;}

}

}

**CarSim.java**

public class CarSim{

public static void main(String[] args){

Odometer a = new Odometer();

FuelGauge b = new FuelGauge();

b.setFuel();

a.setMileage();

while(b.getFuel()>0){

b.useFuel();

for(int i = 0; i<24; i++){

a.addMileage();

}

System.out.println("Gallons of Fuel Left" + b.getFuel());

System.out.println("Mileage on Car:" +a.getMileage());

}

System.out.println("All out of gas");

}

}