4. **RetailItem Class**

**public** **class** **RetailItem**

{

**private** String description;

**private** **int** unitsOnHand;

**private** **double** price;

**public** **RetailItem**(String desc, **int** units, **double** pri)

{

description = desc;

unitsOnHand = units;

price = pri;

}

**public** **void** **setDescription**(String desc)

{

description = desc;

}

**public** **void** **setUnits**(**int** units)

{

unitsOnHand = units;

}

**public** **void** **setPrice**(**double** pri)

{

price = pri;

}

**public** String **getDescription**()

{

**return** description;

}

**public** **int** **getUnits**()

{

**return** unitsOnHand;

}

**public** **double** **getPrice**()

{

**return** price;

}

}

**public** **class** **QuestionFour**{

**public** **static** **void** **main**(String []args)

{

RetailItem item1 = **new** RetailItem("Jacket", **12**, **59.95**);

RetailItem item2 = **new** RetailItem("Designer Jeans", **40**, **34.95**);

RetailItem item3 = **new** RetailItem("Shirt", **20**, **24.95**);

/\* Optional code to print descriptions, units on hand, and price of items.

System.out.println(item1.getDescription() + ": " + item1.getUnits() + " units on hand at $" + item1.getPrice() + " per item.");

System.out.println(item2.getDescription() + ": " + item2.getUnits() + " units on hand at $" + item2.getPrice() + " per item.");

System.out.println(item3.getDescription() + ": " + item3.getUnits() + " units on hand at $" + item3.getPrice() + " per item.");

\*/

}

}

7. **Circle Class**

**public** **class** **Circle**

{

**private** **double** radius;

**private** **final** **double** PI = **3.14159**;

//constructor with radius as argument

**public** **Circle**(**double** r)

{

radius = r;

}

//constructor with no arguments

**public** **Circle**()

{

radius = **0.0**;

}

**public** **void** **setRadius**(**double** r)

{

radius = r;

}

**public** **double** **getRadius**()

{

**return** radius;

}

**public** **double** **getArea**()

{

**return** PI \* radius \* radius;

}

**public** **double** **getDiameter**()

{

**return** radius \* **2**;

}

**public** **double** **getCircumference**()

{

**return** **2** \* PI \* radius;

}

}

**import** **java.util.Scanner**;

**public** **class** **QuestionSeven**{

**public** **static** **void** **main**(String []args)

{

Scanner scan = **new** Scanner(System.in);

**double** radius;

System.out.print("Enter a radius: ");

radius= scan.nextDouble();

Circle circle = **new** Circle(radius);

System.out.println("This circle, with a radius of " + circle.getRadius() + " has an Area of " + circle.getArea() + ", a diameter of " + circle.getDiameter() + ", and a circumference of " + circle.getCircumference() + ".");

}

}