AP Java HW

Consider the following description of two classes.

The Gizmo class represents gadgets that people purchase. Some Gizmo objects are electronic and others are not. A partial class definition is provided in the "Gizmo only" folder in the textbook along with a starter file. Using the psvm and the provided output (a comment in the "Gizmo only" starter file) complete the Gizmo class.

The OnlinePurchaserManager class manages a sequence of Gizmo objects that an individual has purchased from an online vendor. A partial class definition is provided in the "Complete code" folder in the textbook along with its corresponding starter file.

Complete the entire OnlinePurchaserManager class. The output for the psvm is provided as a comment in the starter file. Two of the OnlinePurchaseManager methods deserve extra attention.

The countElectronicsByMaker method examines the ArrayList instance variable **purchases** to determine how many Gizmo objects purchased are electronic and are manufactured by maker. Assume that the OnlinePurchaserManager object opm has been declared and initialized so that the ArrayList **purchases** contains Gizmo objects as represented in the following table.

Index in purchases	0	1	2	3	4	5
Value returned by method call isElectronic()	true	false	true	false	true	false
Value returned by method call getMaker()	"ABC"	"ABC"	"XYZ"	"lmnop"	"ABC"	"ABC"

The following table shows the value returned by some calls to countElectronicsByMaker.

Method Call	Return Value	
opm.countElectronicsByMaker("ABC")	2	
opm.countElectronicsByMaker("lmnop")	0	
opm.countElectronicsByMaker("XYZ")	1	
opm.countElectronicsByMaker("QRP")	0	

The OnlinePurchaseManager method hasAdjacentEqualPair detects whether two adjacent Gizmo objects in **purchases** are equivalent, using the equals method of the Gizmo class. If an adjacent equivalent pair is found, the hasAdjacentEqualPair method returns true. If no such pair is found, or if **purchases** has fewer than two elements, the method returns false.

Submit a screenshot of your output for the provided OnlinePurchaseManager psvm and Gizmo.java and OnlinePurchaseManager.java.