WORKSHEET 04A – In class on week 2 day 1

Implement a class from scratch: CashRegister

	tement a cass from sectaten. Casimegrater
1	Design : This class represents the transactions when ONE customer buys & pays for a number of items
	in the store
	a) Characteristics (which will be fields):
	Also: dollar values of a quarter, dime, nickel, penny
	b) Behaviors (which will be methods):
	Study these two files
	The instructions are in 3-4 if you were to do create the 2 files from scratch. To save time, the files are
	given to you in 2. So study them. You may use the debugger to step (into) through the whole program,
	and identify the types & scopes of variables (fields, local variables, parameters) and inspect their
	values along the way.
2	Download CashRegister and CashRegisterTester (same as in textbook, p. 134)
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3	Study CashRegister:
	a) Note the 3 parts:
	Fields – see characteristics
	 Constructors – to initialize fields
	Methods – see behaviors
	b) Switch to "Documentation" (i.e., with javadoc tool) to see its APIs
	c) Experiment by changing the descriptions after the @ tags in the source file, and seeing the
	changes in the
4	Test CashRegister:
	<u>Hint</u> : the structure is similar to BankAccountTester
	a) Create a CashRegister object
	b) Write one statement to record each of several items to be bought
	c) Write a statement to record when the customer gives the money to pay
	d) Write a statement to ask for the change to be given to the customer, along with your expected
	value
	e) Do another set of statements as in steps b-d, for another customer
	f) Try with different purchase and payment amounts, verifying the change amount each time
	g) Look at the APIs of this class
5	View pair programming – about 10 mins
	https://www.youtube.com/watch?v=rG_U12uqRhE&t=25s
	Do pair programming for the following problems, switching every 10 minutes.
	If not completed in class, continue as HW.
	ii not completed in class, continue as riw.

6	Do E 4.4
	<u>Note</u> : If necessary, consult the Conversation class for prompting for user inputs.
	<u>Hint</u> : Need to prompt for 2 ints here.
	<u>Reminder</u> : Don't just display the numeric results; do provide the meaning by including the label for
	each number.
	Email/copy the program from the driver's computer to the other, so both students can study from it.
	Submit online.
7	Do E 4.5
	<u>Hint</u> : Use printf to format nicely
	Email/copy the program from the driver's computer to the other, so both students can study from it.
	Submit online.
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8	Reminder: Share in online Discussion.

THE END