Grading Rubric – Tutorial 14, Review

Description	Pts	Your
		Score
1. Use your editor to open the ag_squares_txt.html, ag_squares_txt.js, and	4	
ag_cards2_txt.js files from the html14 > review folder. Enter your name and		
the date in the comment section of each file, and save them as		
ag_squares.html, ag_squares.js, and ag_cards2.js respectively.		
2. Go to the ag_squares.html file in your editor. Link the page to the	4	
ag_card2.js and ag_squares.js files in that order, loading the files		
asynchronously. Take some time to study the HTML code in the file and		
then close it, saving your changes.		
3. Go to the ag_cards2.js file in your editor. Bob has already created an	10	
object literal for the squareGame object containing the cardGrid array for		
storing five poker hands and two methods: the calcRowPoints() method for		
calculating the point total for a poker hand in a row indicated by an index		
argument, and the calcColumnPoints() method for calculating the point total		
for a poker hand in a column indicated by an index. Complete the		
squareGame object by adding the follow- ing properties and methods (make		
sure you separate the properties and methods with a comma.)		
a. The gametotal property of the squareGame variable, which stores the		
total points achieved in the Poker Squares game. Set its value to 0.		
b. The wintotal property of the squareGame variable, which stores the point		
total required for winning the game. Set its value to 50.		
c. The gameResult() method, which returns the text string "Winner" if		
gameTotal is greater than or equal to winTotal; otherwise returns the text		
string "No Winner".		
4. Below the squareGame object, insert code for the insertcard() method of	4	
the pokerHand object prototype. The purpose of this method is to insert a		
card into a poker hand at a specified index. The method has two arguments:		
the card argument referencing a pokerCard object and the index argument		
specifying the location where the card should be placed. Insert a command		
into the function to make this.cards[index] equal to the value of the card		
argument.		
5. Document your work with comments, and save your changes to the file	4	
6. Open the ag_squares.js file in your editor.	3	
7. Go to the playPokerSquares() function. Within the function add an	4	
onclick event handler to the startButton object that runs an anonymous		
function when the user clicks the Start Button on the web page. Within the		
anonymous function, do the tasks laid out in Steps 8 through 13.		

8. Set up the initial game board by doing the following:	14	
a. Set the gameTotal property of the squareGame object to 0.		
b. Remove the current game score by changing the value of the gameScore		
input box on the page to an empty text string.		
c. Remove the current game result by changing the text content of the		
gameResult element on the page to an empty text string.		
d. Remove the current row and column totals by looping through the		
contents of the rowSumCells and columnSumCells object collections,		
setting the text content of each cell to an empty text string.		
e. Remove the current card images by looping through the cardImages		
object collection, setting the source of every inline image to the		
"ag trans.gif" file.		
9. Create a new pockerDeck object named myDeck and use the shuffle()	4	
method to randomize the order of its cards.		
10. Create a new pokerCard object named mystartercard. Apply the shift()	7	
method to the cards array of myDeck to store the first card from the deck in	-	
myStarterCard. Change the src attribute of the newCard inline image by		
calling the card[mage() method for the myStarterCard object.		
11. The starter card is added to the board by clicking a cell in the grid table	12	
where the user wants the card placed. For every image in the card mages		
collection create an onclick event handler that does the following.		
a Applies the cardImage() method to the myStarterCard object to display		
the image of the current card in the event object target		
b. Stores the row number and column number of the clicked image in the		
b. Stores the row humber and column humber of the checked image in the		
the second and third characters of the id attribute of the super chicat torget)		
the second and third characters of the ld attribute of the event object target.)		
c. Applies the insert a condicto the new orid. Use myStarterCond as the nelver		
object to insert a card into the new grid. Use mystarterCard as the poker		
d After the cond has been placed within the grid it connet he shanged. Set		
d. After the card has been placed within the grid, it cannot be changed. Set		
the onclick event handler of the event target to null to prevent the user from		
re-clicking the cell later in the game.	0	
12. Finally, test whether the user has completed the grid table. Within the	9	
onclick event handler of the previous step, test whether there are more than		
2/ cards left in the deck. If there are more than 2/ cards left, the game		
continues. Shift the next card from myDeck into the myStarterCard object		
and change the src attribute of newCard to display the image of the next		
starter card.		
13. Otherwise, if the grid table is completed and the game is over, calculate	14	
the game score and totals for the poker hands in each row and column as		
tollows:		
a. Indicate that the game is over by changing the src attribute of the		
newCard image to the "ag_cardback3.png" file.		
b. Calculate the row poker hand totals by creating a for loop with a counter		
variable that goes from 0 to 4. Declare the rowTotal variable equal to the		
value returned by the calcRowPoints() method of squareGame object, using		

 your counter variable as the parameter value. Add rowTotal to the value of the gameTotal property of the squareGame object. Display the rowTotal value in the element with the ID rowindexsum where index is the value of your counter variable. c. Calculate the column totals with another for loop as you did in the previous step for the row totals. Use the calcColumnPoints() method to calculate the totals for each column poker hand, adding the column total to the gameTotal property and displaying column total value in the element with the ID colindexsum. d. Change the value of the gameScore input box to the value of the gameTotal property of the squareGame object. 		
gameResult element to the text returned by the squareGame object's gameResult() method.		
14. Document your work with comments and save the file.	4	
15. Open the ag_squares.html file in your browser. Click the Start button to begin a game. Verify that you can add cards to the grid by clicking cells within the table. Play a complete game by filling out the grid and verify that when all cells are filled, the page displays: a) row and column totals for every hand, b) the overall point total for the game, c) a message indicating whether the player won or lost, and d) a card image showing that the game is over.	3	
TOTAL	100	

YOUR SCORE: _____