Assignment 6 Name Adithya Pandiri

OPTION 1 – Real Estate Company

1. Your target for this assignment is to design a simple web page for a local start-up real estate company. They want the design of their web page similar to the following screenshot.



When user clicks the Loan Calculator link, the loan calculator will be displayed on the right side of the page. The Loan Calculator will calculate monthly payment with amortization schedule as follows.

Monthly interest rate = Interest rate(annual) / 12

Monthly Payment = LoanAmount \times (Monthly interest rate)/(1-(1+Monthly interest rate)^(-number of month))

Interest Paid Per Month = Balance x Monthly interest rate

Principal Paid Per Month = Monthly Payment – Interest Paid Per Month

Test Data with 150000 loan, 5.5% interest rate and 30 years term

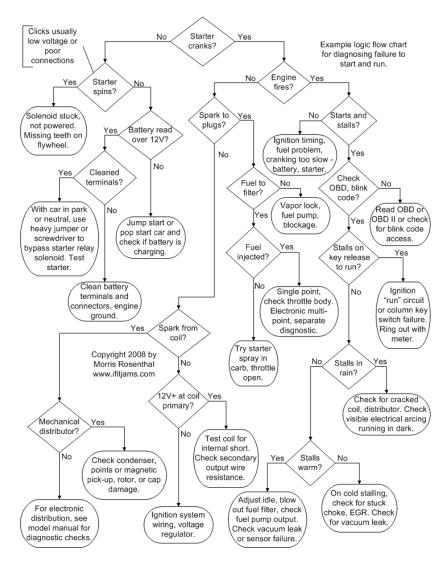
Monthly Payment: 851.68

Date	Interest	Principal	Balance
2011	\$8,199.57	\$2,020.63	\$147,979.37
2012	\$8,085.59	\$2,134.61	\$145,844.75
2013	\$7,965.18	\$2,255.02	\$143,589.73
2014	\$7,837.98	\$2,382.22	\$141,207.51
2015	\$7,703.60	\$2,516.60	\$138,690.91
2016	\$7,561.65	\$2,658.56	\$136,032.35
2017	\$7,411.68	\$2,808.52	\$133,223.83
2018	\$7,253.26	\$2,966.94	\$130,256.89
2019	\$7,085.90	\$3,134.30	\$127,122.59

2.	Here are grading rubrics/specifications for this assignment.
	Name your file - realestate.html
	In the assignment section of your index.html document, create a link which links to this document
	"realestate.html".
	Click link and the loan calculator become visible.
	✓ Loan Calculator interface
	✓ Input text box for Loan amount
	Input text box for Interest rate(annual)
	Input text box for Loan term(in Years)
	Start year
	Button "Calculate"
	JavaScript function for Loan Calculator
	Read Inputs
	Validate the inputs
	Calculate monthly payment
	Use for loop
	Calculate annual interest and principal paid
	Generate the table and display the amortization schedule as the above figure.
	Hint: You need nested loop to work on this assignment. To calculate annual interest, you
	need to calculate interest month by month and then add them.
	Hint: Use JavaScript Math.pow(x,y) function to calculate x^y.
	Before you submit your file, be sure to check this checklist.
	To submit:
	Push all files, images to GitHub pages.
	Click the submit button in blackboard.

OPTION 2 – Local Auto Service Company

1. You are asked by a local auto service company to convert the following diagnostic flowchart for a car that won't start or stalls to an interactive quiz. This JavaScript based interactive tool will help customer solve the car start problem. Please follow the **carcannotstart.mp4 video** to design and implement your easy to follow diagnostic quiz. All the situations in the flowchart need to be included.



Copyright 2016 by Morris Rosenthal All Rights Reserved ---SOURCE: https://www.ifitjams.com/starting.htm

Please remember to put a reminder in your website that your interactive quiz is based on the flowchart created by Morris Rosenthal.