Test Plan

Reference data from www.investor.gov

All values bases on annual interest rate of 18%

	\$1000,				100 p/month				Saving 100 p/month Start balance 1000									
Compound Frequency	Mon	thly	Quarte	erly	Annua	aly	Monthly		Quarte	rly	Ann	nualy	Mon	thly	Quart	erly	Annua	aly
Running time:																		
1Y	\$	1,195.60	\$	1,192.00	\$	1,180.00	\$	1,304.00	\$	1,283.00	\$	1,200.00	\$	2,499.60	\$	3,691.60	\$	2,380.00
10Y	\$	5,969.30	\$	5,816.00	\$	5,233.84	\$	33,128.80	\$	32,109.00	\$	28,225.57	\$	39,098.10	\$	44,914.10	\$	33,459.00
20Y	\$	35,632.80	\$	33,830.00	\$	27,393.00	\$	230,885.00	\$	218,867.00	\$	175,953.56	\$	266,517.80	\$	300,347.80	\$	203,347.00
50Y	\$	7,579,235.00	\$	6,656,686.00	\$	3,927,357.00	\$ 5	0,521,564.00	\$	44,371,242.00	\$	26,175,712.00	\$	58,100,799.00	\$	51,027,928.00	\$	30,103,069.00

Integration test, whole program:

Feature:		Test data	Expected return	Test result
	Fill in data in input mask, calculate results and			
calculate capital :	check output against Reference data	reference Data	nominal	Pass
store file	Check values against reference data	reference Data	nominal	Pass
Display Table	Check contents against reference data	reference Data	nominal	Pass
Plot Function of future value and total contributions	Check values against reference data	reference Data	nominal	Pass
Read file	Fill in file name and read file. Check graph against input file	reference Data	nominal	Pass

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Test of speciall cases

Input	Reaction	Test result
	Displays warning under the empty	
Nothing	field	Pass
0 in each field	returns 0	Pass
	will be ignored for investment	
Negative number	period	Pass
	Displays warning under the missing	
Characters	field	Pass
	If the calculate function returns overflow en error message to check the input data is	
Overflow	displayed	Pass
		Pass
	displays file name	
nothing in file name	required	Pass
incorrect file name	displays file error	Pass

Function test

Execute each function by itself with test data as per table

Function	Test data	Expected return	Test result
fetch_data	reference Data	nominal	Pass
formula.calculate_capital	reference Data	nominal	Pass
file.store_csv	reference Data	nominal	Pass
read()	reference Data	nominal	Pass
graph.plot_graph	reference Data	nominal	Pass
file.read_csv	reference Data	nominal	Pass
graph.plot_data	reference Data	nominal	Pass