

Shane Duffy

ECE-205

Homework #1 Outputs

**Q1)**

Case 1: 8600s

Please enter number of seconds: 8600

Number of seconds entered: 8600

The number of seconds entered is equivalent to: 2 hours, 23 minutes, and 20.0000 seconds.

This is also equivalent to: 2.3889 hours or 143.3333 minutes.

Case 2: 9427s

Please enter number of seconds: 9427

Number of seconds entered: 9427

The number of seconds entered is equivalent to: 2 hours, 37 minutes, and 7.0000 seconds.

This is also equivalent to: 2.6186 hours or 157.1167 minutes.

**Q2)**

Case 1) 42hrs worked, 0 dependents

Please enter number of hours worked: 42

Please enter number of dependents: 0

According to your input, you worked 42 hours and have 0 dependents.

Gross Income:1580.25

Federal Tax:237.04

State Tax:63.21

City Tax:15.80

Social Security:94.81

Health Insurance:0.00

Case 2: 37hrs worked, 2 dependents

Please enter number of hours worked: 37

Please enter number of dependents: 2

According to your input, you worked 37 hours and have 2 dependents.

Gross Income:1359.75

Federal Tax:203.96

State Tax:54.39

City Tax:13.60

Social Security:81.58

Health Insurance:20.00

Union Dues:1359.75

Net Income:966.21

**Q3)**

Case 1: 1k loan, 18% APR, \$50.00/month

What is the Amount of the loan? 1000

What is interest rate of the loan? Please enter the decimal value. e.g. 18.0, 5.0, 4.99: 18.00

What is your planned monthly payment? 50.00

Month(#)	Interest	Principal	Balance	Total Interest	Total Paid
1	15.00	35.00	965.00	15.00	50.00
2	14.47	35.53	929.47	29.47	100.00
3	13.94	36.06	893.42	43.42	150.00

4	13.40	36.60	856.82	56.82	200.00
5	12.85	37.15	819.67	69.67	250.00
6	12.30	37.70	781.97	81.97	300.00
7	11.73	38.27	743.70	93.70	350.00
8	11.16	38.84	704.85	104.85	400.00
9	10.57	39.43	665.42	115.42	450.00
10	9.98	40.02	625.40	125.40	500.00
11	9.38	40.62	584.79	134.79	550.00
12	8.77	41.23	543.56	143.56	600.00
13	8.15	41.85	501.71	151.71	650.00
14	7.53	42.47	459.24	159.24	700.00
15	6.89	43.11	416.13	166.13	750.00
16	6.24	43.76	372.37	172.37	800.00
17	5.59	44.41	327.95	177.95	850.00
18	4.92	45.08	282.87	182.87	900.00
19	4.24	45.76	237.11	187.11	950.00
20	3.56	46.44	190.67	190.67	1000.00
21	2.86	47.14	143.53	193.53	1050.00
22	2.15	47.85	95.68	195.68	1100.00
23	1.44	48.56	47.12	197.12	1150.00
24	0.71	49.29	-2.17	197.83	1200.00

It would take 24 months to pay off your loan. The last month would cost \$47.83