

CSCI 3327
Assignment 3
Dr. Abraham

Objective: Loops, text boxes & formatted output.

Saving for future is a very necessary practice. Many of us do not know the power of compounding interest. Your assignment is to write a program that can be used to show people how much money they will have accumulated over their gainful employment period. An individual should start the account with an initial investment and then add to it every 30 days (If you want to write it so that it is added each month, rather than every 30 days, please do so. Remember, you have to add all additional math to figure out days in each month, interest for exact days of the month, etc.). The interest will be compounded (interest for one day added to the principle) on a daily basis. Create a table that shows yearly figures of: Age, beginning principle, Interest earned for the year, deposits for the year and ending principle. Screen captures are given below:

The screenshot shows a window titled "Future Value" with the following input fields and buttons:

- Amount of Initial Depsit: 2000.00
- Amount of deposit every 30 days: 250.00
- Interest Rate per Annum: 9
- Age when account started: 25
- Age at Retirement: 65
- Buttons: CALCULATE, PRINT, CLEAR, STOP

The table below shows the calculated values for each year from age 26 to 35:

Age	Beg Bal	Yrly Int	Yrly Dep	Ending Bal
26	0,002,000.00	00,317.75	3,000.00	0,005,317.75
27	0,005,317.75	00,630.16	3,000.00	0,008,947.92
28	0,008,947.92	00,971.98	3,000.00	0,012,919.90
29	0,012,919.90	01,346.00	3,000.00	0,017,265.90
30	0,017,265.90	01,755.22	3,000.00	0,022,021.12
31	0,022,021.12	02,202.99	3,250.00	0,027,474.11
32	0,027,474.11	02,716.45	3,000.00	0,033,190.56
33	0,033,190.56	03,254.72	3,000.00	0,039,445.28
34	0,039,445.28	03,843.68	3,000.00	0,046,288.96
35	0,046,288.96	04,488.10	3,000.00	0,053,777.06

Future Value

Amount of Initial Deposit: 2000.00

Amount of deposit every 30 days: 250.00

Interest Rate per Annum: 9

Age when account started: 25

Age at Retirement: 65

CALCULATE

PRINT

CLEAR

STOP

Age	Beg Bal	Yrly Int	Yrly Dep	Ending Bal
54	0,408,383.03	38,583.65	3,000.00	0,449,966.69
55	0,449,966.69	42,499.26	3,250.00	0,495,715.94
56	0,495,715.94	46,807.11	3,000.00	0,545,523.05
57	0,545,523.05	51,497.05	3,000.00	0,600,020.10
58	0,600,020.10	56,628.61	3,000.00	0,659,648.71
59	0,659,648.71	62,243.37	3,000.00	0,724,892.08
60	0,724,892.08	68,386.82	3,000.00	0,796,278.90
61	0,796,278.90	75,108.76	3,250.00	0,874,637.66
62	0,874,637.66	82,487.19	3,000.00	0,960,124.85
63	0,960,124.85	90,536.85	3,000.00	1,053,661.69
64	1,053,661.69	99,344.48	3,000.00	1,156,006.17
65	1,156,006.17	108,981.45	3,000.00	1,267,987.62