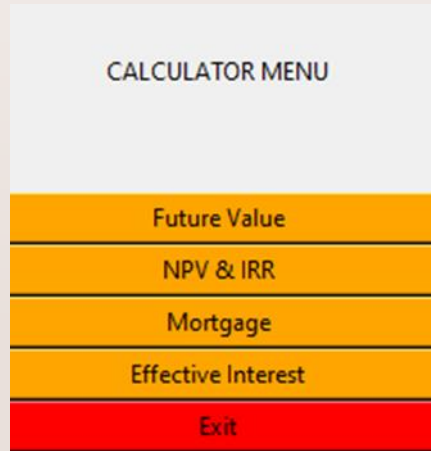


Financial Calculator

Sunil Kumar

Financial Calculator Application

- The Financial Calculator application was crafted using Python and Tkinter.
- Empowers users with a seamless graphical interface for data entry.
- Robust input validation ensures data accuracy through type checks and identification of blank fields.
- Reports dynamically generated in PDF and Excel formats and saved to the specific locations for easy access.
- Engage with generated charts for enhanced visualizations.



Future value calculator

Financial Calculators

FUTURE VALUE

Starting Amount: 10000

Yearly Deposit: 1500

Annual Interest: 4.5

No of Years: 10

Yearly Deposit:
at Beg enter(1),
at End enter (0)

Total Returns: \$33,962.01

Total Interest: \$8,962.01

Total Deposit: \$25,000.00

Present Value: \$21,869.08

Show Results

Create Excel Schedule

Create PDF Schedule

Show Plot

Clear Results

Clear All

Back to Menu

Schedule.pdf created

Please check c:\ temp folder

OK

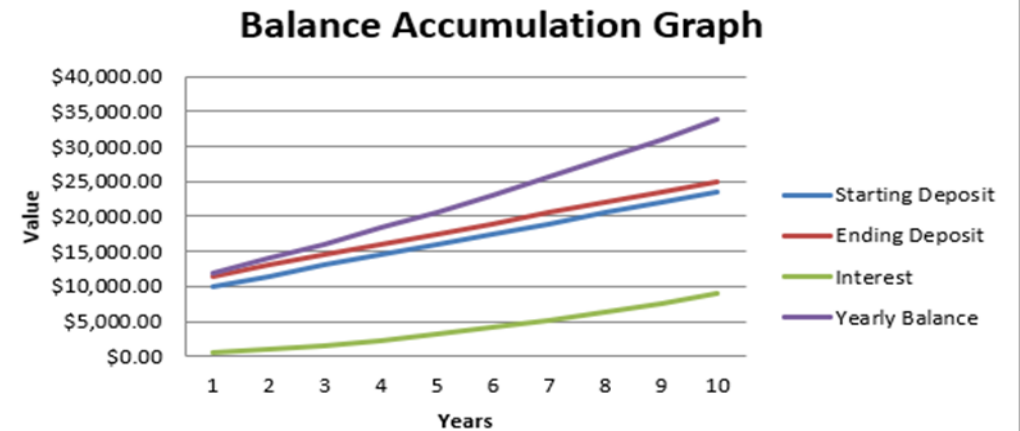
Developer : Sunil

User input fields

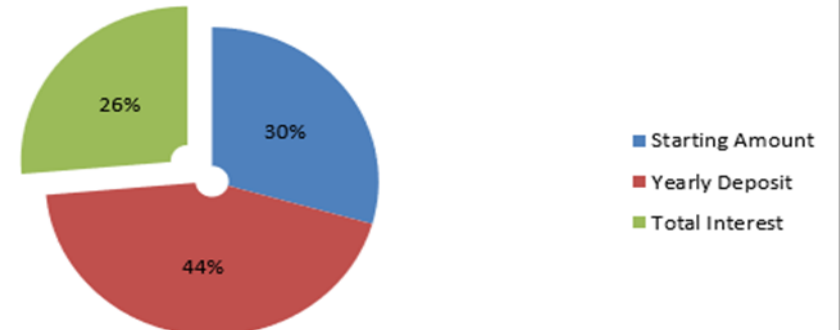
	A	B	C	D	E
1	Years	Starting Deposit	Ending Deposit	Interest	Yearly Balance
2	1	\$10,000.00	\$11,500.00	\$450.00	\$11,950.00
3	2	\$11,500.00	\$13,000.00	\$987.75	\$13,987.75
4	3	\$13,000.00	\$14,500.00	\$1,617.20	\$16,117.20
5	4	\$14,500.00	\$16,000.00	\$2,342.47	\$18,342.47
6	5	\$16,000.00	\$17,500.00	\$3,167.88	\$20,667.88
7	6	\$17,500.00	\$19,000.00	\$4,097.94	\$23,097.94
8	7	\$19,000.00	\$20,500.00	\$5,137.35	\$25,637.35
9	8	\$20,500.00	\$22,000.00	\$6,291.03	\$28,291.03
10	9	\$22,000.00	\$23,500.00	\$7,564.12	\$31,064.12
11	10	\$23,500.00	\$25,000.00	\$8,962.01	\$33,962.01

Excel schedule output

F	G	H	I	J
	Developer:Sunil	Nov, 9 2023 02:02 PM		
	Total Returns	\$33,962.01		
	Present Value	\$21,869.08		
	Starting Amount	\$10,000.00		
	Yearly Deposit	\$15,000.00		
	Total Interest	\$8,962.01		
	No of Years	10		
	Interest Rate	4.50%		



Breakdown



Excel summary and chart output

Mortgage Calculator



Financial Calculators

Mortgage Calculator

Home Price: 600000

Mortgage Payment (Monthly): \$1,896.58

Down Payment(%): 20

Mortgage Payment (Total): \$682,768.91

Annual Interest: 2.5

Total interest: \$202,768.91

No of Years: 30

Choose Date: 11/9/23

Show Results

Create Excel Schedule

Show Plot

Clear Results

Clear All

Back to Menu

Amortization Schedule.xlsx crea...



Please check c:\ temp folder

OK

Developer : Sunil

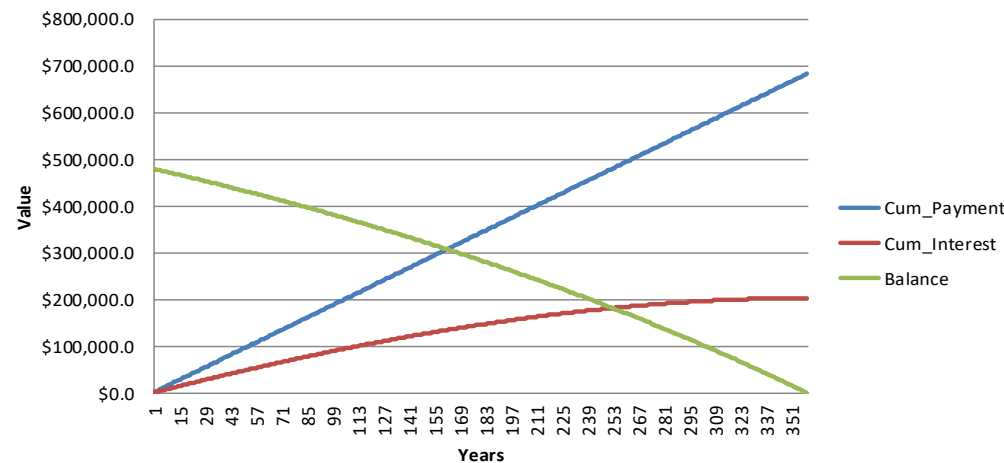
User input fields

	A	B	C	D	E	F	G	H	I
1	Period	Payment Date	Monthly Payment	Beginning Balance	Principal Paid	Interest Paid	Cum_Payment	Cum_Interest	Balance
2	1	2023-12-01 00:00:00	\$1,896.6	\$480,000.0	\$896.6	\$1,000.0	\$1,896.6	\$1,000.0	\$479,103.4
3	2	2024-01-01 00:00:00	\$1,896.6	\$479,103.4	\$898.5	\$998.1	\$3,793.2	\$1,998.1	\$478,205.0
4	3	2024-02-01 00:00:00	\$1,896.6	\$478,205.0	\$900.3	\$996.3	\$5,689.7	\$2,994.4	\$477,304.7
5	4	2024-03-01 00:00:00	\$1,896.6	\$477,304.7	\$902.2	\$994.4	\$7,586.3	\$3,988.8	\$476,402.5
6	5	2024-04-01 00:00:00	\$1,896.6	\$476,402.5	\$904.1	\$992.5	\$9,482.9	\$4,981.3	\$475,498.4
7	6	2024-05-01 00:00:00	\$1,896.6	\$475,498.4	\$906.0	\$990.6	\$11,379.5	\$5,971.9	\$474,592.4
8	7	2024-06-01 00:00:00	\$1,896.6	\$474,592.4	\$907.9	\$988.7	\$13,276.1	\$6,960.6	\$473,684.6
9	8	2024-07-01 00:00:00	\$1,896.6	\$473,684.6	\$909.7	\$986.8	\$15,172.6	\$7,947.5	\$472,774.8
10	9	2024-08-01 00:00:00	\$1,896.6	\$472,774.8	\$911.6	\$985.0	\$17,069.2	\$8,932.4	\$471,863.2
11	10	2024-09-01 00:00:00	\$1,896.6	\$471,863.2	\$913.5	\$983.1	\$18,965.8	\$9,915.5	\$470,949.7

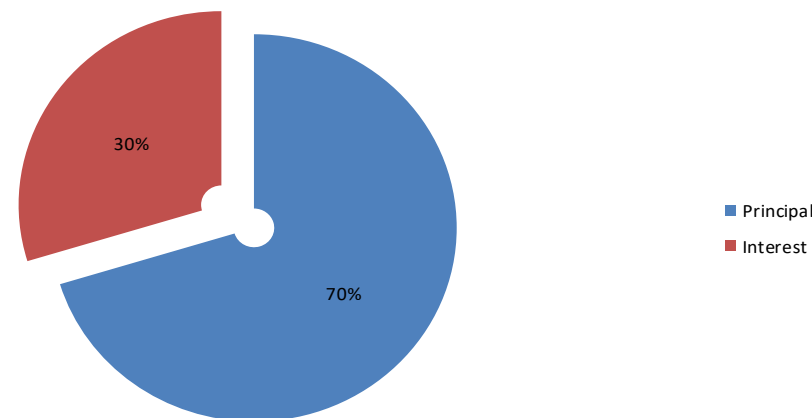
Excel schedule output

Developer: Sunil	Nov, 9 2023 03:57 PM
Monthly Payment	\$1,896.6
Total Payment	\$682,768.9
House Price	\$600,000.0
Principal	\$480,000.0
Interest	\$202,768.9
Down Payment	\$120,000.0
Interest Rate	2.5%

Mortgage Amortization Graph



Payment Breakdown



Excel summary and chart output

Effective interest calculator

Financial Calculators

Fixed Deposit: 50000

Annual Interest Rate: 6

Number of Years : 10

Choose Date: 11/9/23

Show Results

Show Chart

Created

See Results

OK

Compounding:

Yearly:

Semi-Annual:

Quarterly:

Monthly:

Daily:

Annual Effective Rate :

6.00%

6.09%

6.14%

6.17%

6.18%

Total Returns:

\$89,542.38

\$90,305.56

\$90,700.92

\$90,969.84

\$91,101.45

Total Interest:

\$39,542.38

\$40,305.56

\$40,700.92

\$40,969.84

\$41,101.45

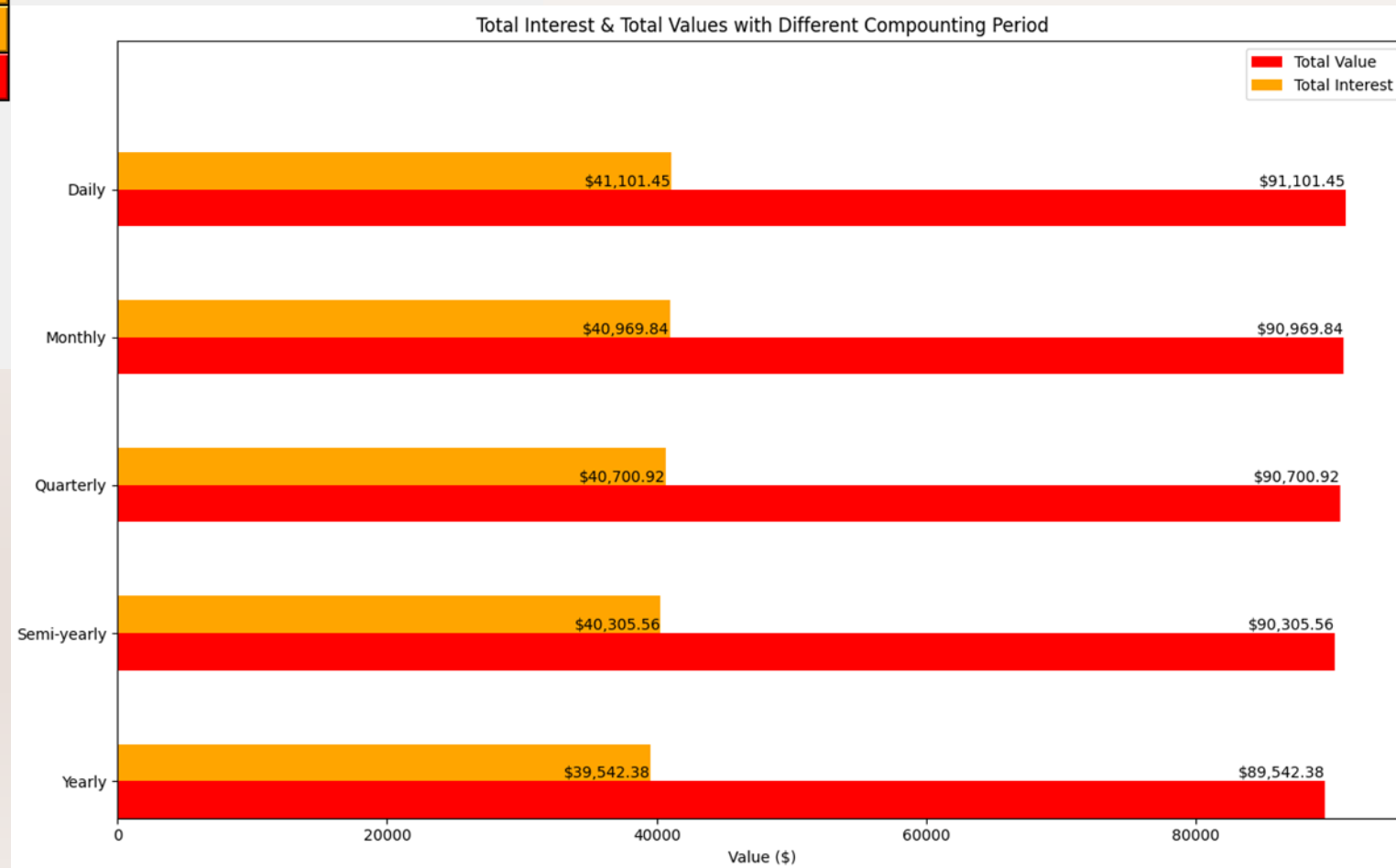
Clear Results

Clear All

Back to Menu

User input fields

Interest comparison chart



Net Present Value & Internal Rate of Return

Financial Calculators

NPV & IRR

Initial Investment:

5000

Calculated NPV:

\$567.92

Yearly Cash Flows,
Seperated by Comma:

1200,1000,700,500,1500

Calculated IRR:

10.15%

Discount Rate (%):

7

Show Results

Clear Results

Clear All

Back to Menu

Created

i

See Results

OK

Developer : Sunil

User input fields

Thank you