

Python Program for Compound Interest

- Level: Easy

Formula to calculate compound interest annually is given by:

$$A = P \cdot (1 + R/100)^t$$

Compound Interest = A – P

Where,

A is amount

P is principle amount

R is the rate and

t is the time span

Examples:

Input : Principle (amount): 1200

Time: 2

Rate: 5.4

Output : Compound Interest = 133.099243

Input variables

```
principlea := 1200
```

```
ratea := 5.4
```

```
timea := 2
```

Code

Below is program to calculate compound interest for given parameters

```
1 #py
2 # Function to find compound interest for given values.
3 def compound_interest(principle, rate, time):
4
5     # Calculates compound interest
6     Amount = principle * (pow((1 + rate / 100), time))
7     CI = Amount - principle
8     print("Compound interest is", CI)
9
10 # Driver Code
11 compound_interest(principlea, ratea, timea)
12 ###
```