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

```py
#py
# Function to find compound interest for given values.
def compound_interest(principle, rate, time):

    # Calculates compound interest
    Amount = principle * (pow((1 + rate / 100), time))
    CI = Amount - principle
    print("Compound interest is", CI)

# Driver Code
compound_interest(principlea, ratea, timea)
###
```