

Methods and attributes → Piggy bank

Hard 15 minutes

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You are given a class `PiggyBank` that represents an old-school moneybox in the shape of a pig. It has two attributes, `dollars` and `cents`, and their initial values are passed to the constructor.

Create a method `add_money` with two parameters, `deposit_dollars` and `deposit_cents`, that increases the sum of money in the piggy bank. To put it another way, in the method, you are supposed to increase the values of `dollars` and `cents` by `deposit_dollars` and `deposit_cents` respectively.

Parameters `deposit_dollars` and `deposit_cents` of the `add_money` method can have any value, but the value of the attribute `cents` cannot be higher than 99!

For example, we start with `PiggyBank(0, 50)`: 0 dollars and 50 cents. If we try to add another 50 cents, we will have to update the values of both `dollars` and `cents`, because the attribute `cents` cannot equal 100. So, the resulting values are 1 dollar and 0 cents.

NOTE: you do NOT need to process input. The examples below are for you to test your program. The input shows how many dollars and cents we add to the piggy bank with 1 dollar and 1 cent. The output is the resulting amount of money.

Report a typo

Sample Input 1:

0 99

Sample Output 1:

2 0

Sample Input 2:

0 88

Sample Output 2:

1 89

Sample Input 3:

500 500

Sample Output 3:

506 1

Write a program

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Python

```
1 class PiggyBank:
2     # create __init__ and add_money
3     def __init__(self, dollars, cents):
4         self.dollars = dollars
5         self.cents = cents
6
7     def add_money(self, deposit_dollars, deposit_cents):
8         self.dollars += deposit_dollars
9         if self.cents + deposit_cents >= 100:
10             self.dollars += (self.cents + deposit_cents) // 100
11             self.cents = (self.cents + deposit_cents) % 100
12         elif self.cents + deposit_cents < 100:
13             self.cents += deposit_cents
14         return self.dollars, self.cents
15
```

✓ Correct.

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