

Assignment 3

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Due Monday by 11:59p.m. **Points** 10 **Submitting** a file upload

Question 1

Create a function that computes a future investment value at a given interest rate for a specified number of years. The future investment is determined using this formula.

$$\text{Interest} = \text{Investment Amount} \times (1 + \text{Effective Annual Rate})^{\text{Years}} - \text{Investment Amount}$$

Using the following function header:

```
def interest(investmentAmount, effectiveAnnualRate, years):
```

For example, `interest(10000, 0.02, 5)` returns 1040.81. Use your function to print the earned interest from year 1 to 30 for \$1000 invested and effective annual interest rate 0.09.

The amount invested: 1000

Effective annual interest rate: 0.09

Years	Earned Interest
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1	90.00
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2	188.10
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3	295.03
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28	10167.14
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29 11172.18

30 12267.68

Question 2

Given 3 int values, a b c, return their sum by creating the lone_sum function. However, if one of the values is the same as another of the values, it does not count towards the sum. For example,

```
print(lone_sum(1, 2, 3))
```

6

```
print(lone_sum(3, 2, 3))
```

2

```
print(lone_sum(3, 3, 3))
```

0