

# Floating-Point

## Assignment Rubric

### Check Items

Description	Points	Comments	Grade
Python code to solve the problem posed in the assignment is shown.	5		
The Python code correctly initializes a variable to 0.1.	10		
The Python code correctly adds 0.01 to the variable at least 10,000 times.	10		
The Python code prints the result after each addition.	10		
A correct explanation is given for how the Python code works.	30		
The output from running the Python code is shown.	5		
A correct statement is made about the mathematics of repeatedly adding 0.01 to a starting value of 0.1.	10		
A correct explanation is given as to why the Python program output differs from the mathematical expectation.	10		
A real-world example is given of a situation in which using IEEE 754 numbers with fractions of 10 could lead to incorrect results.	10		

### Don't Do These Things

Description	Points	Comments	Grade
The demonstration is given using screenshots instead of video.	-100		
The submitted video lacks audio narration.	-100		

### Grade

Calculation Algorithm	Your Grade
$\max(\text{sum of above grades}, 0)$	<b>x</b>

## Remarks

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