MTH 337, SAMPLE QUIZ #7

Fall 2021

Professor: S. Cassani

You have 10 minutes to complete the quiz.

Name: _____

(Also print name on back upper right corner of quiz.)

Max score: 10

	Python Code	**Result**	
| 1 | ```python
a=np.arange(6).reshape(3,2)
b=np.arange(3).reshape(3,1)
print(a+b)
``` | | |
| 2 | ```python
a=np.zeros((3,1,5))
b=np.ones((3,4,1))
print( (a+b).shape )
``` | | |
| 3 | | Assume for the remainder of the quiz that the following command has been run<br><br>```python
import numpy as np
import matplotlib.pyplot as plt

a=np.arange(12).reshape(4,3)
```<br><br>Add 1 to all the elements in the first column of a, add 2 to all the elements in the second column of a, and add 3 to all the elements in the third column of a. Use as little instructions as possible | |
| 4 | | Assume that the following command has been run<br><br>```python
b=np.arange(16).reshape(4,4)
```<br><br>Add 3 to the 4 elements in the center of the array b. | |
| 5 | | Assume there is a file called house.jpg on your laptop in the folder where you currently working. Read the image, then change the color to (full) red for all pixels where the green component is less than 0.5 | |

Total Points: