PHY 480 - Computational Physics
Project 1: Linear Algebra Methods

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Github Repository at https://github.com/ThomasBolden/PHY-480-Spring-2016

Abstract

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Contents

Introduction

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Results

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Conclusions

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Code

../Code/Project1.cpp

```
1  // Project 1 - Vector and Matrix Operations
2
3  #include <iostream>
4  #include <fstream>
5  #include <cmath>
6  #include <iomanip>
7  #include <string>
8  //#include "armadillo"
9
10 using namespace std;
11 //using namespace arma;
12 ofstream myfile;
13
14
15 int main(){
16
17     // ~~- Declaration of Variables -~~ \\
18     double n;
19     string outfilename;
20
21     cout << "Enter a number: "; // user enters a number
22     cin >> n;
23     cout << "Enter a name for the output file: "; // user enters a name for the output file
24     cin >> outfilename;
25
26     // body of the program
```

```
27
28
29
30      // writing value to file, to be read and graphed in python later
31      myfile.open(outfilename);
32      //myfile << setiosflags(ios::showpoint | ios::uppercase); // setting scientific notatio
33      myfile << n << endl;
34
35      myfile.close();
36
37      return 0;
38
39  }
```

References

[1]