CHOLESKY WITH SCIPY AND NUMPY RESULTS:

<pre>N: 100 A1 x = b1 Ten median x are: [[1.] [</pre>	N: 1000 A1 x = b1 Ten median x are: [[1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004] [1.00000004]	N: 10000 A1 x = b1 Ten median x are: [[0.99996061] [0.9999606] [0.9999606] [0.9999606] [0.9999606] [0.9999606] [0.9999606] [0.9999606] [0.9999606] [0.9999606]
[[1.] [1.]	[[1.] [1.] [1.]	[[1.] [1.] [1.]
[1.] [1.] [1.]	[1.] [1.]	[1.] [1.]
[1.] [1.] [1.]	[1.] [1.] [1.]	[1.] [1.] [1.]
[1.] [1.]]	[1.]	[1.]

CHOLESKY WITH SCIPY AND NUMPY AND {4.FLOAT} PRECISION RESULTS:

```
1000
                                                       10000
N: 100
                          A1 x = b1
                                                   A1 x = b1
A1 x = b1
                           Ten median x are:
                                                    Ten median x are:
Ten median x are:
                          [[1.0000]
                                                   [[1.0000]
[[1.0000]
                           [1.0000]
                                                    [1.0000]
[1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]]
                                                    [1.0000]]
[1.0000]]
                          A2 x = b2
                                                  A2 x = b2
A2 x = b2
                          Ten median x are:
                                                   Ten median x are:
 Ten median x are:
                          [[1.0000]
                                                  [[1.0000]
[[1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
[1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                   [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
[1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                    [1.0000]
 [1.0000]
                           [1.0000]
                                                   [1.0000]
 [1.0000]
                           [1.0000]]
                                                   [1.0000]]
[1.0000]]
```

```
CHOLESKY WITHOUT SCIPY (HARDCODED) :
N = 100
A1 x = b1
 Ten median x are:
[1. 1. 1. 1. 1. 1. 1. 1. 1. 1.]
A2 x = b2
Ten median x are:
[1. 1. 1. 1. 1. 1. 1. 1. 1. 1.]
N = 1000
A1 \times = b1
Ten median x are:
[1.00000006 1.00000006 1.00000006 1.00000006 1.00000006 1.00000006
 1.00000006 1.00000006 1.00000006 1.00000006]
A2 x = b2
Ten median x are:
[1. 1. 1. 1. 1. 1. 1. 1. 1. 1.]
                                                                     CHOLESKY(HARDCODED) WITHOUT SCIPY AND WITH {4.FLOAT} PRECISION RESULTS:
N = 100
A1 \times = b1
 Ten median x are:
[1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000]
A2 x = b2
 Ten median x are:
[1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000]
N = 1000
A1 x = b1
Ten median x are:
[1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000]
A2 x = b2
Ten median x are:
[1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000]
```