>> HQr Enter the si	ze of the	matriv	
6	ze or the	maciix	
Enter the si	ze of the	matrix	
4			
QR decomposition			
Matrix H is			
-0.0614	0.1176	-0.3858	-0.0471
-0.8697	-0.8847	0.2127	0.3709
-0.5387	-0.1576	0.7445	-0.7098
0.1905	-0.5672	-0.2818	0.9820
-0.4356	-0.4296	0.0050	0.5948
0.0374	0.7157	0.8721	-0.7612
Matrix Q is			
1			
Matrix R is			
1.1304	0.8430	-0.5180	-0.0335
0	1.0627	0.8165	-1.4595
0	0	0.8082	-0.2408
0	0	0	0.5932
Matlab Generated Q R is			
-0.0544	0.1538	0.6676	-0.0251
-0.7694	-0.2222	0.0076	-0.0329
-0.4765	0.2222	-0.3836	0.5025
0.1685	-0.6675	-0.4336	-0.1987
-0.3854	-0.0986	0.1413	-0.6812
0.0330	0.6473	-0.4463	-0.4923
1.1304	0.8430	-0.5180	-0.0335
0	1.0627	0.8165	-1.4595
0	0	-0.8082 0	0.2408 -0.5932
U	U	U	-0.3932
Single Valued Decomposition			
Matrix U is			
-0.0309	-0.1366	-0.5611	0.3721
-0.3515	0.7056	-0.1236	0.0760
0.3246	0.6142	-0.0863	-0.4352
-0.5296	-0.1006	0.5821	-0.2683
-0.3335	0.2783	0.1733	0.6507
0.6152	0.1365	0.5418	0.4134
Matrix Delta	is		
2.1153	0	0	0
0	1.5287	0	0
0	0	0.5858	0
0	0	0	0.3040

```
Matrix V is
    0.0946 -0.7009 0.4168 -0.5711
    0.5390 -0.4592 0.0685 0.7028
   0.4079 0.5291 0.7430 -0.0395
-0.7309 -0.1341 0.5191 0.4223
Minimum X for QR is
    0.4989
    0.9699
    0.8638
   -1.0118
Minimum X for SVD is
   -0.3150
   -0.1568
   -0.3395
   -0.3018
Frobenius Norm for QR decomposition is 2.4893e-32
Frobenius Norm for SVD is 1.8118
Equinorm of QR decomposition is
    3.8691
Equinorm of SVD decomposition is
    0.7866
>> clear
>> HQr
Enter the size of the matrix
Enter the size of the matrix
45
Frobenius Norm for QR decomposition is 4.4734e-29
Frobenius Norm for SVD is 224.2898
Equinorm of QR decomposition is
    7.9053
Equinorm of SVD decomposition is
    4.2226
```

>>