

Assignment2.m

```
1 %Gauss-Jordan Method to find the Inverse of a Square Matrix
2 clc
3 close all
4
5 clear all
6
7 format short g
8
9 A = input("Enter the Matrix in the Matrix form")
10 I = eye(length(A))
11 Aug = [A I]
12
13 N = length(A)
14
15 for i=1:N
16     Aug(i,:) = Aug(i,+)/Aug(i,i);
17     for j=1:N
18         if j~=i
19             Key = Aug(j,i);
20             Aug(j,:) = Aug(j,)-Key*Aug(i,);
21         end
22     end
23 end
24 Aug
25 r=(length(Aug)/2+1);
26
27 Inverse = Aug(:,r:end)
28
```

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