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Experiment 6
                     Implementation of Gauss Jordan in Scilab.
AIM:
                    A = [1 \ 3 \ 2; 2 \ 7 \ 7; 2 \ 5 \ 2]
Code
                    disp(A);
                    B = [2;-1;7]
                    disp(B);
                    C = [A,B]
                    disp(C);
                    n = 3;
                    for i=1:n
                      C(i,:) = C(i,:)/C(i,i);
                      disp(C)
                      for j=1:n-1
                         if i+j < n+1
                          C(i+j,:) = C(i+j,:) - C(i+j,i) * C(i,:)
                         end
                       end
                       disp(C)
                    end
                    for i=n:-1:2
                      for j=1:i-1
                         C(j,:)=C(j,:)-C(j,i)*C(i,:);
                       end
                    end
                    disp("X=");
                    disp(C(1,4));
                    disp("Y=");
                    disp(C(2,4));
                    disp("Z=");
                    disp(C(3,4));
```

```
Output
                    --> exec('D:\Manish\SPIT\4th SEM\LA\Prac5\gelimination.sce', -1)
                                2.
                           3.
                      2.
                           7.
                                7.
                           5.
                                2.
                      2.
                      -1.
                      7.
                      1.
                           3.
                                2.
                                     2.
                                7.
                                    -1.
                                2.
                                2.
                                     2.
                      1.
                           3.
                      2.
                           7.
                                7.
                                    -1.
                                2.
                                2.
                                     2.
                      1.
                           3.
                      0.
                           1.
                                3.
                                    -5.
                          -1.
                               -2.
                           3.
                                2.
                                     2.
                      1.
                      0.
                                3.
                                    -5.
                           1.
                      0.
                          -1.
                               -2.
                                     2.
                           3.
                                2.
                      1.
                                    -5.
                      0.
                           1.
                                3.
                      0.
                           Ο.
                                1.
                                    -2.
                                2.
                                     2.
                      1.
                           3.
                      0.
                           1.
                                3.
                                    -5.
                      0.
                                1.
                                    -2.
                           3.
                                2.
                                     2.
                      1.
                                    -5.
                      0.
                           1.
                                3.
                                1. -2.
                     X=
                       3.
                     Y=
                     Z=
                      -2.
                    -->
CONCLUSION: Hence, by completing this experiment I came to know about Implementation of Gauss Jordan in
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Scilab.