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Experiment 8
                 Implementation of Gauss Scidel in Scilab.
AIM:
Code
                 clc
                 A=[27 6 -1;6 15 2;1 1 54];
                 B=[85;72;110];
                 n=5;
                 x=0;
                 y=0;
                 z=0;
                 for i=1:n
                   printf("\nIteration number: %g",i);
                   x=(B(1)-(A(1,2)*y)-(A(1,3)*z))/A(1,1);
                   y=(B(2)-(A(2,1)*x)-(A(2,3)*z))/A(2,2);
                   z=(B(3)-(A(3,1)*x)-(A(3,2)*y))/A(3,3);
                   printf("\nTHE value of x:%g",x);
                   printf("\nTHE value of y:%g",y);
                   printf("\nTHE value of z:%g",z);
                 end
```

Output Scilab 6.0.2 Console Iteration number: 1 THE value of x:3.14815 THE value of y:3.54074 THE value of z:1.91317 Iteration number: 2 THE value of x:2.43217 THE value of y:3.57204 THE value of z:1.92585 Iteration number: 3 THE value of x:2.42569 THE value of y:3.57294 THE value of z:1.92595 Iteration number: 4 THE value of x:2.42549 THE value of y:3.57301 THE value of z:1.92595 Iteration number: 5 THE value of x:2.42548 THE value of y:3.57302 THE value of z:1.92595 -->

CONCLUSION: Hence, by completing this experiment I came to know about Implementation of Gauss Scidel in

Scilab.