LAPORAN PRAKTIKUM

PERTEMUAN 6

Disusun sebagai salah satu tugas

mata kuliah Metode Numerik



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P R A K T I K U M

**Soal:**

**Jawab:**

* SPL Matriks [A][X] = [B]

=

* Langkah penyelesaian:

[L][U][X] = [B]

[L][Y] = [B]

[U][X] = [Y]

* SciNotes

function **nilai\_x**=LUGauss(**A**, **b**)

M=[**A** **b**];

[baris,kolom]=size(M)

c=zeros(**A**);

for i = 1:baris

for j = i+1 : baris

M(j,:)=-M(j,i)/M(i,i)\*M(i,:)+M(j,:);

L(j,i)=**A**(j,i)/**A**(i,i);

end

end

**A**=M(:,1:baris);

**b**=M(:,kolom)

[n,n]=size(**A**);

k=0;

while(k<n)

L(k+1,k+1)=1;

k=k+1

end

y(n)=**b**(n)/L(n,n);

for i = n-1:-1:1

jum=0;

for j = i+1:n

jum=jum+L(i,j)\*y(j);

end

y(i)=(**b**(i)-jum)/L(i,i);

end

x(n)=y(n)/**A**(n,n);

for i = n-1:-1:1

jum=0;

for j = i+1:n

jum=jum+**A**(i,j)\*x(j);

end

x(i)=(y(i)-jum)/**A**(i,i);

end

**nilai\_x**=x;

endfunction

* Hasil eksekusi Scilab

