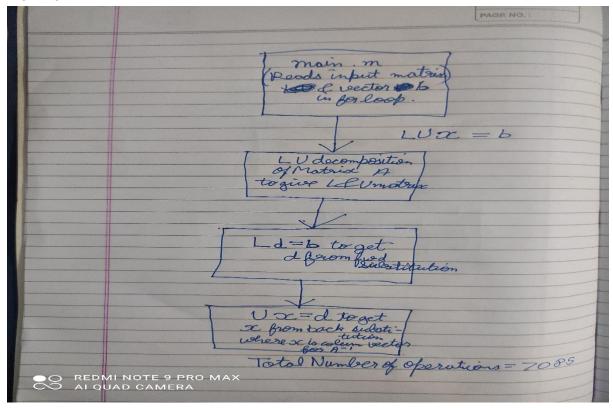
Q. To determine the inverse of a matrix A using LU decomposition method followed by forward and back substitution.

```
A =[
9-41000000000000
-46-41000000000000
1-46-410000000000
01-46-41000000000
001-46-4100000000
0001-46-410000000
00001-46-41000000
000001-46-4100000
0\,0\,0\,0\,0\,0\,1\,-\!4\,6\,-\!4\,1\,0\,0\,0\,0
0\,0\,0\,0\,0\,0\,0\,1\,-\!4\,6\,-\!4\,1\,0\,0\,0
0\,0\,0\,0\,0\,0\,0\,0\,1\,-\!4\,6\,-\!4\,1\,0\,0
0\,0\,0\,0\,0\,0\,0\,0\,0\,1\,-\!4\,6\,-\!4\,1\,0
0\,0\,0\,0\,0\,0\,0\,0\,0\,1\,-\!4\,6\,-\!4\,1
0\,0\,0\,0\,0\,0\,0\,0\,0\,0\,0\,1\,-2\,1
]
```

Work Flow



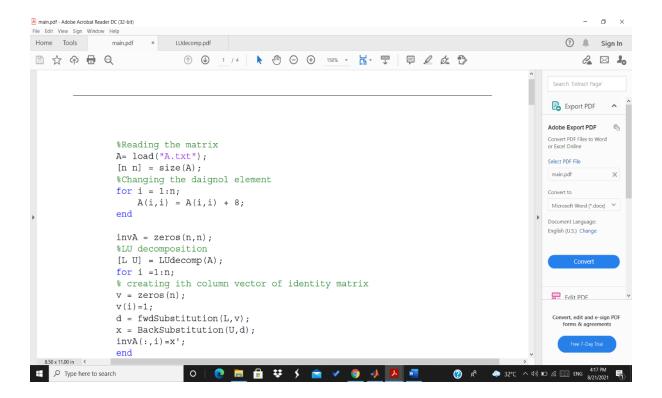
I leave use got 1 adum sector of A motorice using the particular adum of identity

Using the doore algorithm for all alumns of Tomostrice use con gotal adumns of A motorice.

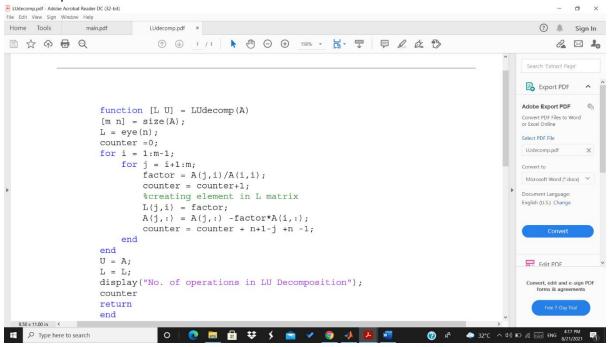
REDMI NOTE 9 PRO MAX AI QUAD CAMERA

MATLAB code

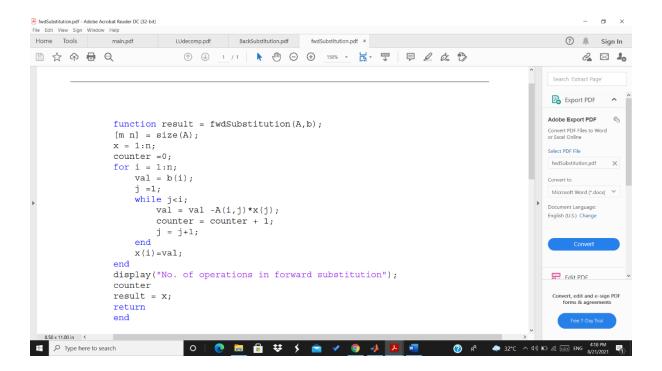
Main.m file



LUdecomp.m file



fwdSubstitution.m file



BackSubstitution.m file

