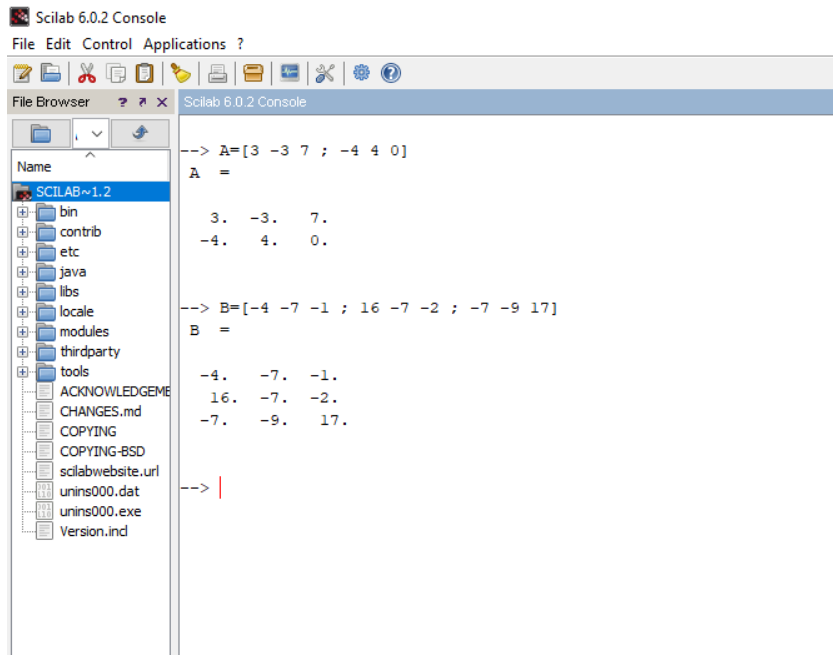


## Assignment 5-Mohammedalsehali

### Part-1

a)



Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

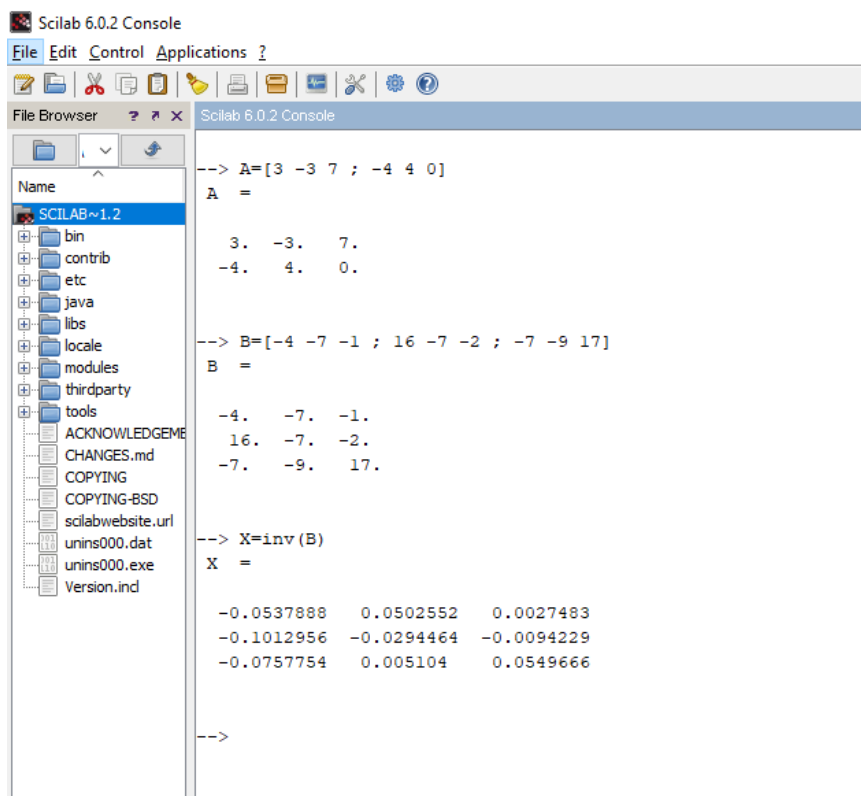
- SCILAB~1.2
  - bin
  - contrib
  - etc
  - java
  - libs
  - locale
  - modules
  - thirdparty
  - tools
  - ACKNOWLEDGEMENTS
  - CHANGES.md
  - COPYING
  - COPYING-BSD
  - scilabwebsite.url
  - unins000.dat
  - unins000.exe
  - Version.ind

```
--> A=[3 -3 7 ; -4 4 0]
A =
    3.  -3.   7.
   -4.   4.   0.

--> B=[-4 -7 -1 ; 16 -7 -2 ; -7 -9 17]
B =
   -4.  -7.  -1.
   16.  -7.  -2.
   -7.  -9.  17.

-->
```

b)



Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

- SCILAB~1.2
  - bin
  - contrib
  - etc
  - java
  - libs
  - locale
  - modules
  - thirdparty
  - tools
  - ACKNOWLEDGEMENTS
  - CHANGES.md
  - COPYING
  - COPYING-BSD
  - scilabwebsite.url
  - unins000.dat
  - unins000.exe
  - Version.ind

```
--> A=[3 -3 7 ; -4 4 0]
A =
    3.  -3.   7.
   -4.   4.   0.

--> B=[-4 -7 -1 ; 16 -7 -2 ; -7 -9 17]
B =
   -4.  -7.  -1.
   16.  -7.  -2.
   -7.  -9.  17.

--> X=inv(B)
X =
  -0.0537888   0.0502552   0.0027483
  -0.1012956  -0.0294464  -0.0094229
  -0.0757754   0.005104   0.0549666

-->
```

c)

Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

- SCILAB~1.2
  - bin
  - contrib
  - etc
  - java
  - libs
  - locale
  - modules
  - thirdparty
  - tools
  - ACKNOWLEDGEMENT
  - CHANGES.md
  - COPYING
  - COPYING-BSD
  - scilabwebsite.url
  - unins000.dat
  - unins000.exe
  - Version.ind

File/directory filter

☐ Case sens...

```

--> A=[3 -3 7 ; -4 4 0]
A =
    3.   -3.    7.
   -4.    4.    0.

--> B=[-4 -7 -1 ; 16 -7 -2 ; -7 -9 17]
B =
   -4.   -7.   -1.
   16.   -7.   -2.
   -7.   -9.   17.

--> X=inv(B)
X =
  -0.0537888    0.0502552    0.0027483
  -0.1012956   -0.0294464   -0.0094229
  -0.0757754    0.005104    0.0549666

--> Y=B/A
Y =
  -0.1428571   -0.4821429
  -0.2857143   -3.0892857
   2.4285714    1.5714286

--> soumyadeep.patra

```

Type here to search

d)

Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

- SCILAB~1.2
  - bin
  - contrib
  - etc
  - java
  - libs
  - locale
  - modules
  - thirdparty
  - tools
  - ACKNOWLEDGEMENT
  - CHANGES.md
  - COPYING
  - COPYING-BSD
  - scilabwebsite.url
  - unins000.dat
  - unins000.exe
  - Version.ind

File/directory filter

☐ Case sens...

```

--> B=[-4 -7 -1 ; 16 -7 -2 ; -7 -9 17]
B =
   -4.   -7.   -1.
   16.   -7.   -2.
   -7.   -9.   17.

--> X=inv(B)
X =
  -0.0537888    0.0502552    0.0027483
  -0.1012956   -0.0294464   -0.0094229
  -0.0757754    0.005104    0.0549666

--> Y=B/A
Y =
  -0.1428571   -0.4821429
  -0.2857143   -3.0892857
   2.4285714    1.5714286

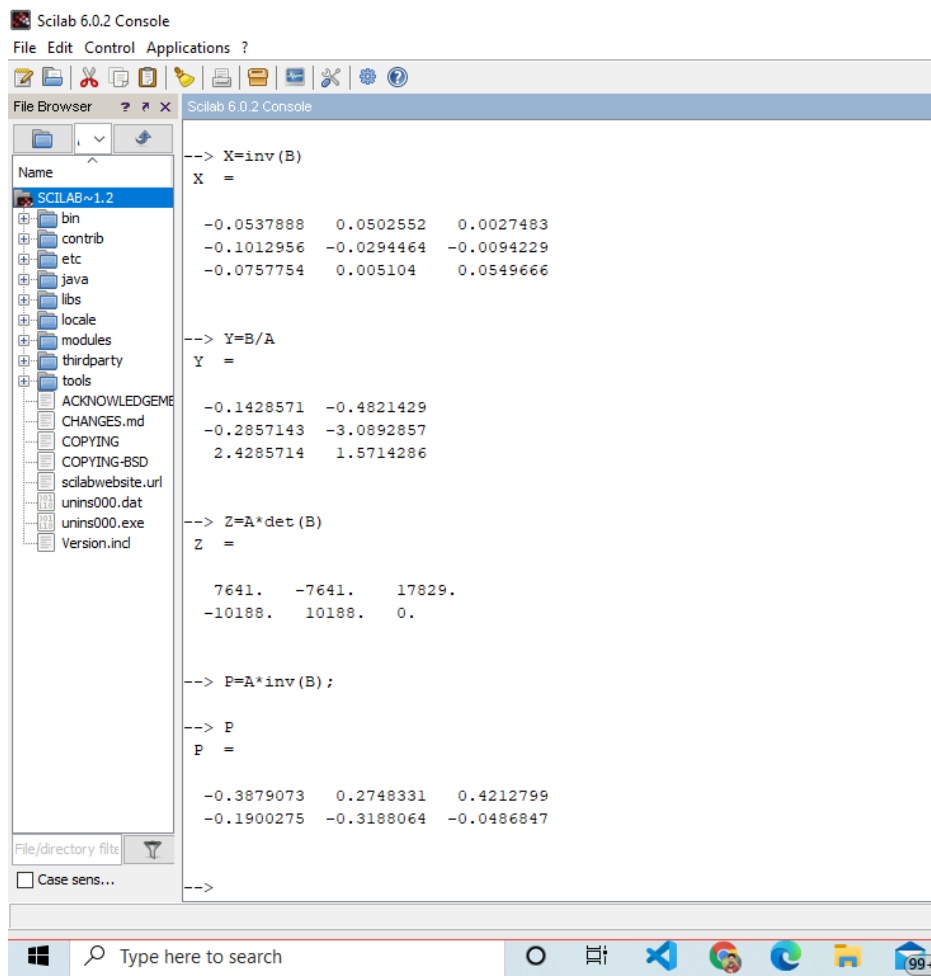
--> Z=A*det(B)
Z =
   7641.   -7641.   1782
  -10188.   10188.    0.

--> soumyadeep.patra

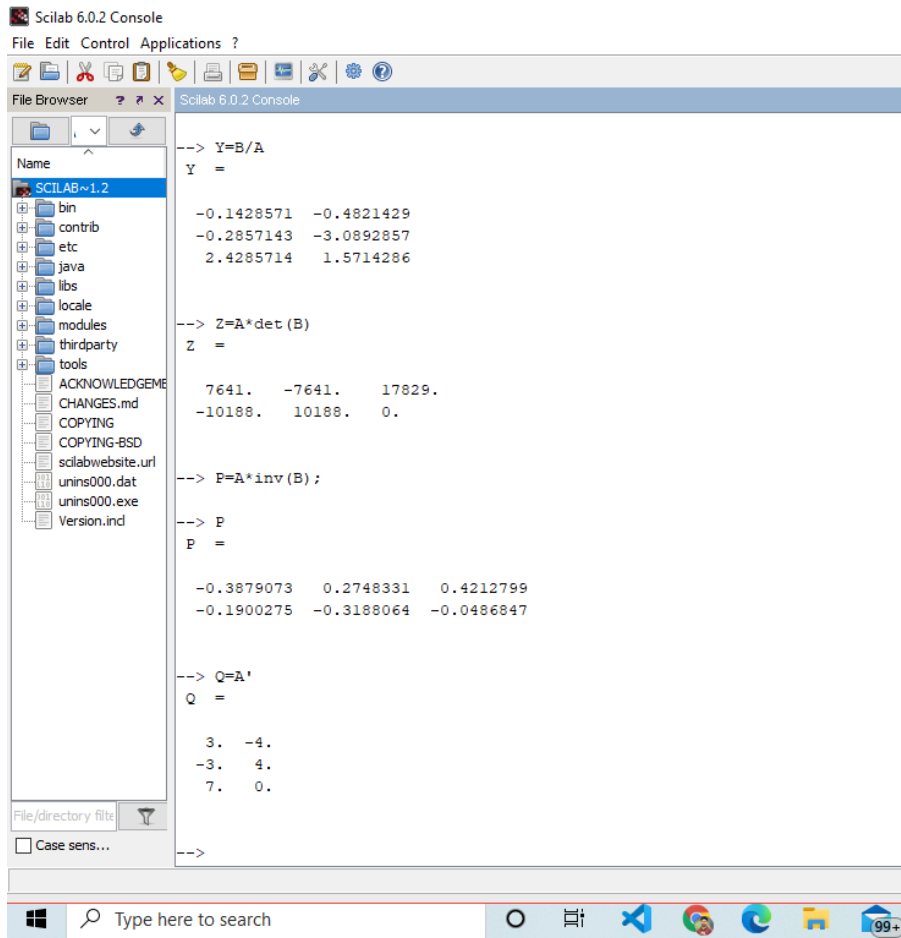
```

Type here to search

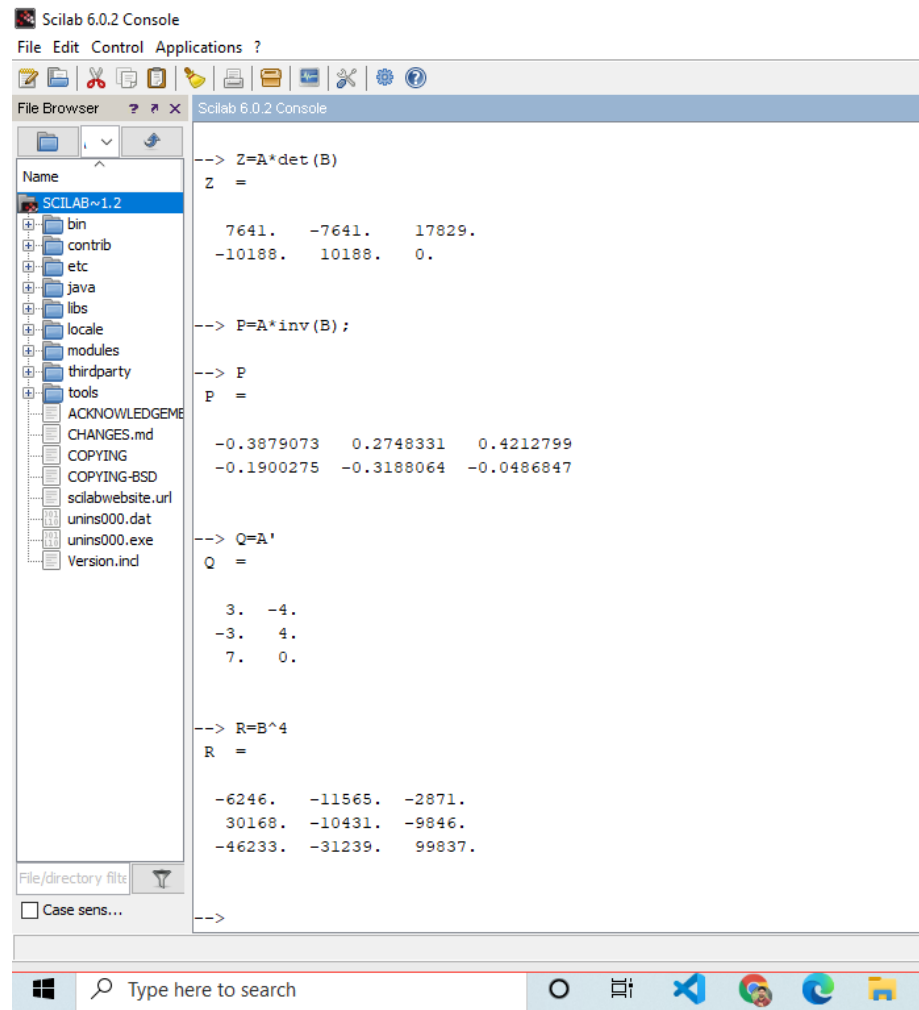
e)



f)



g)



h)

Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

SCILAB-1.2

bin

contrib

etc

java

libs

locale

modules

thirdparty

tools

ACKNOWLEDGEMENT

CHANGES.md

COPYING

COPYING-BSD

scilabwebsite.url

unins000.dat

unins000.exe

Version.ind

File/directory filter

Case sens...

```

--> P=A*inv(B);
P =
-0.3879073  0.2748331  0.4212799
-0.1900275 -0.3188064 -0.0486847

--> Q=A'
Q =
3. -4.
-3. 4.
7. 0.

--> R=B^4
R =
-6246. -11565. -2871.
30168. -10431. -9846.
-46233. -31239. 99837.

--> S=A.^-6
S =
0.0013717  0.0013717  0.0000085
0.0002441  0.0002441  Inf

```

Activate Windows  
Go to Settings to activate Windows.

Type here to search

ENG 11:29 PM  
IN 11/24/2021

i)

Scilab 6.0.2 Console

File Edit Control Applications ?

File Browser

Name

SCILAB-1.2

bin

contrib

etc

java

libs

locale

modules

thirdparty

tools

ACKNOWLEDGEMENT

CHANGES.md

COPYING

COPYING-BSD

scilabwebsite.url

unins000.dat

unins000.exe

Version.ind

File/directory filter

Case sens...

```

-0.1900275 -0.3188064 -0.0486847

--> Q=A'
Q =
3. -4.
-3. 4.
7. 0.

--> R=B^4
R =
-6246. -11565. -2871.
30168. -10431. -9846.
-46233. -31239. 99837.

--> S=A.^-6
S =
0.0013717  0.0013717  0.0000085
0.0002441  0.0002441  Inf

--> T=sqrt(A)
T =
1.7320508  1.7320508i  2.6457513
2.i  2.  0.

```

Activate Windows  
Go to Settings to activate Windows.

Type here to search

ENG 11:29 PM  
IN 11/24/2021

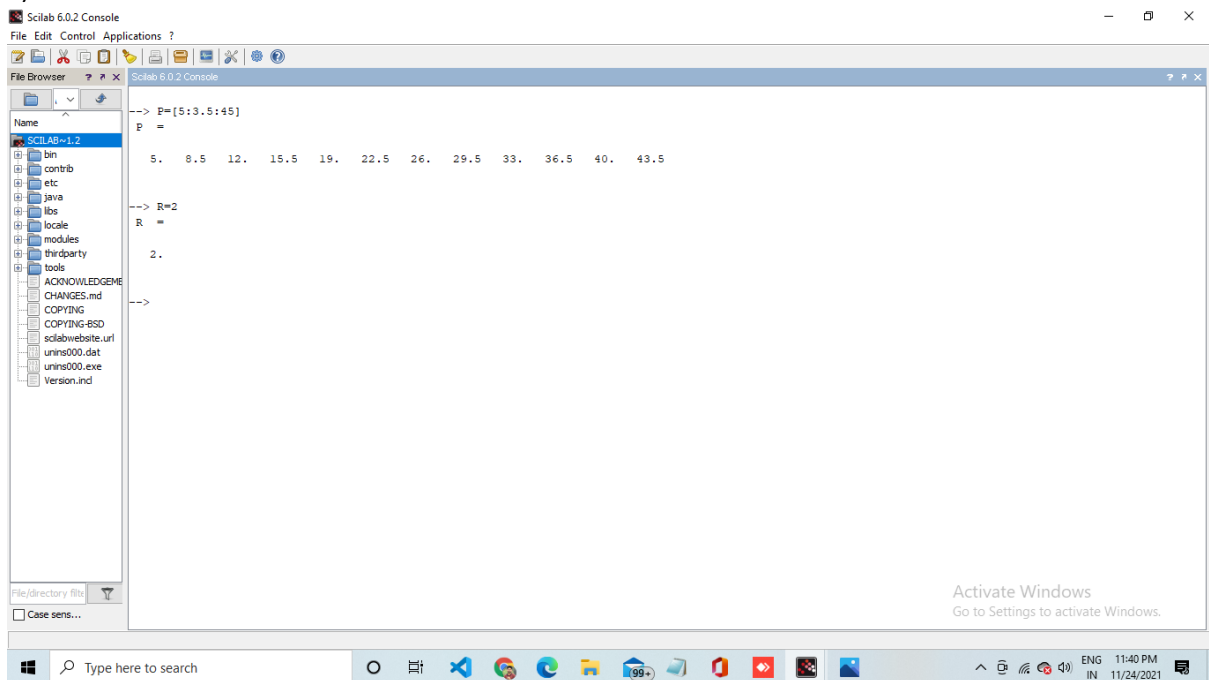
j)

### Assignment-5 Part-1 Mohammedalsehali:

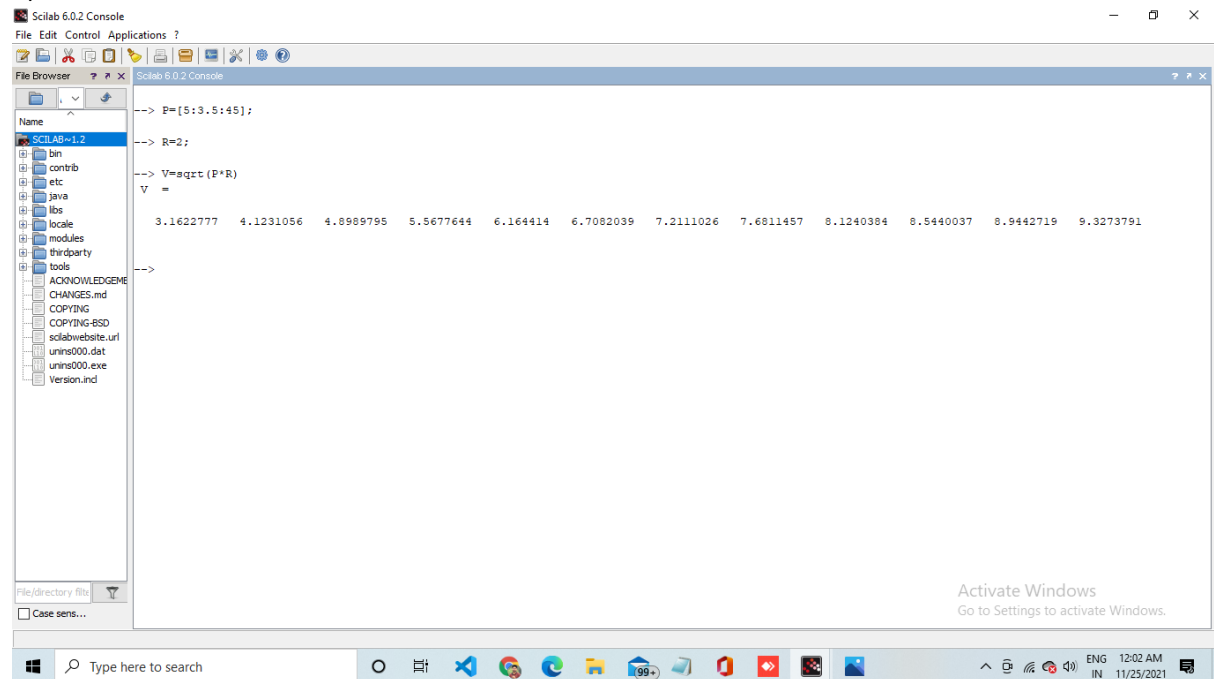
```
Assignment-5 Part-1 Mohammedalsehali.sci  [C]
1  A=[3 -3 7 ; -4 4 0];
2  B=[-4 -7 -1 ; 16 -7 -2 ; -7 -9 17];
3  X=inv(B);
4  P=B/A;
5  Y=A*det(B);
6  Z=A*X;
7  S=A';
8  J=B^4;
9  I=A.^-6;
10 U=sqrt(A);
11
```

### Part-2

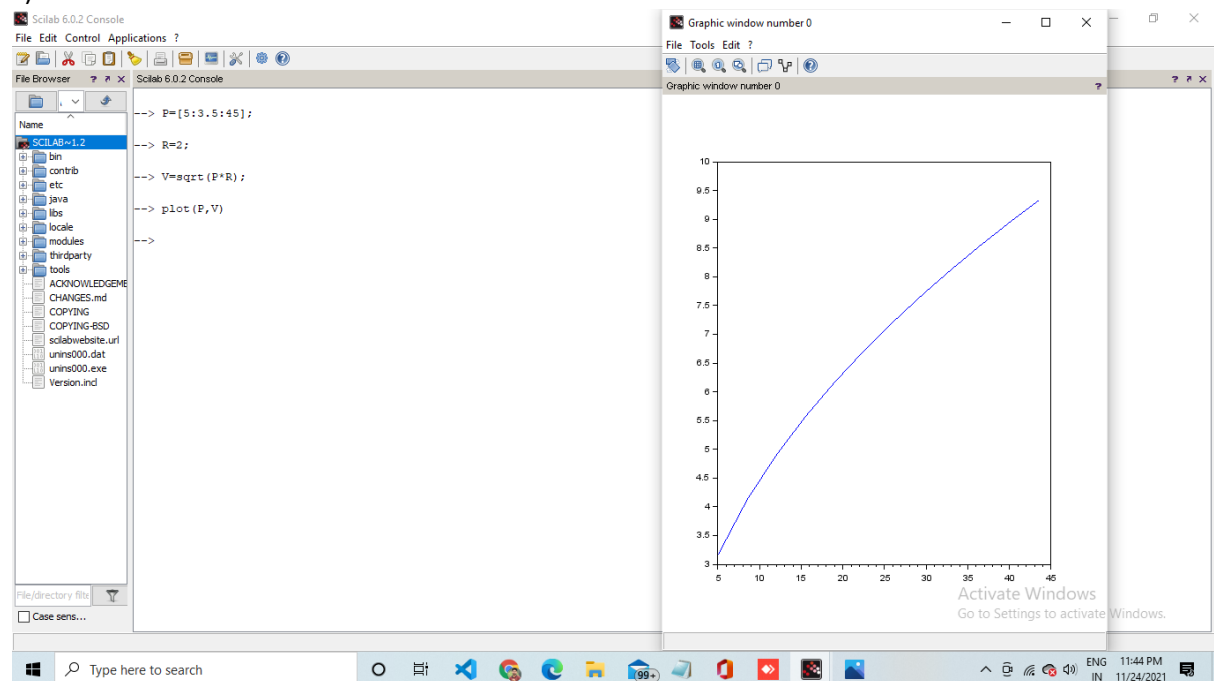
a)



b)

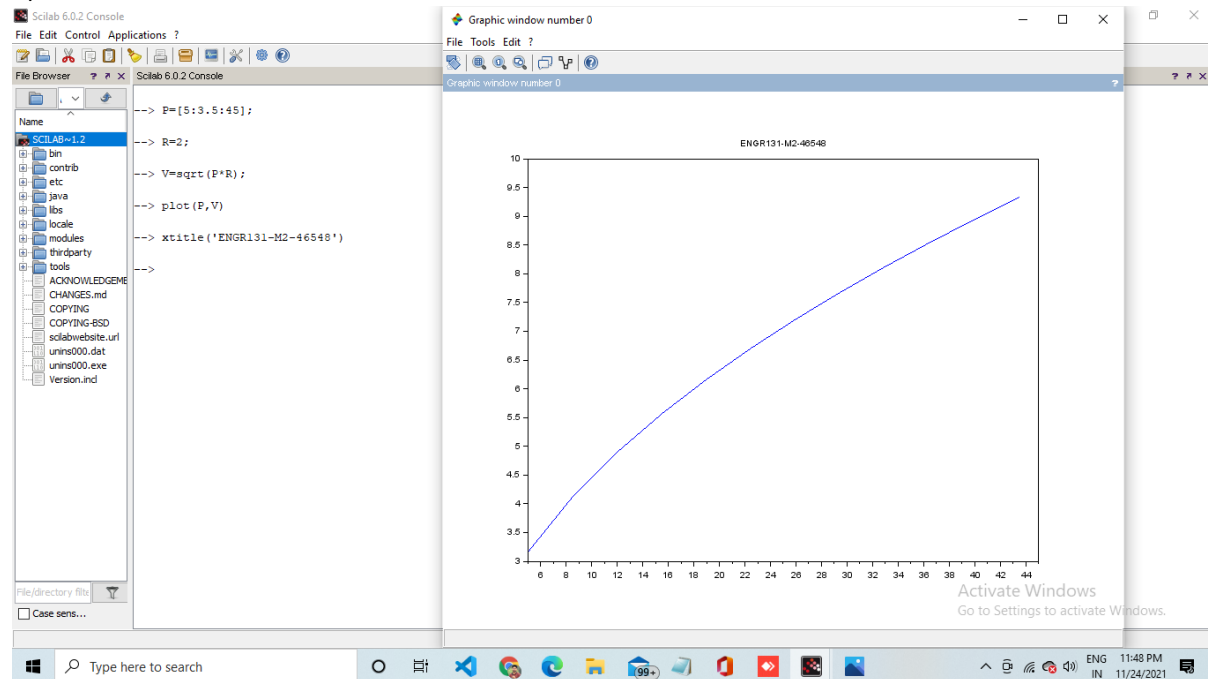


c)

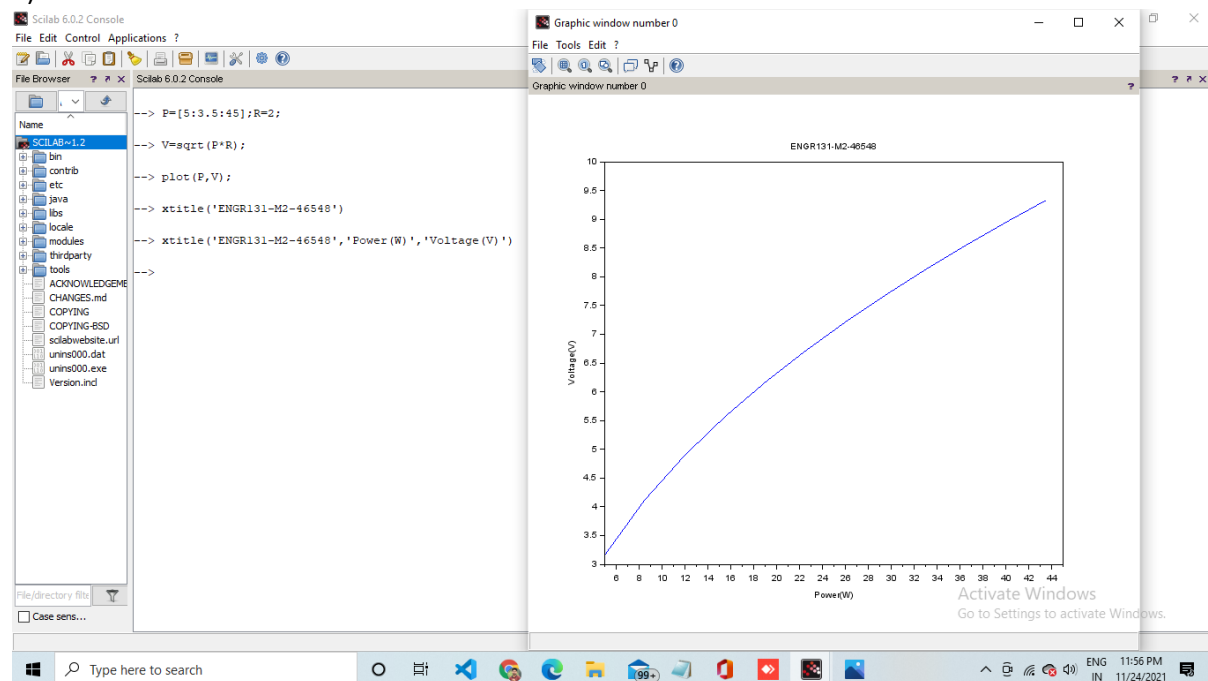




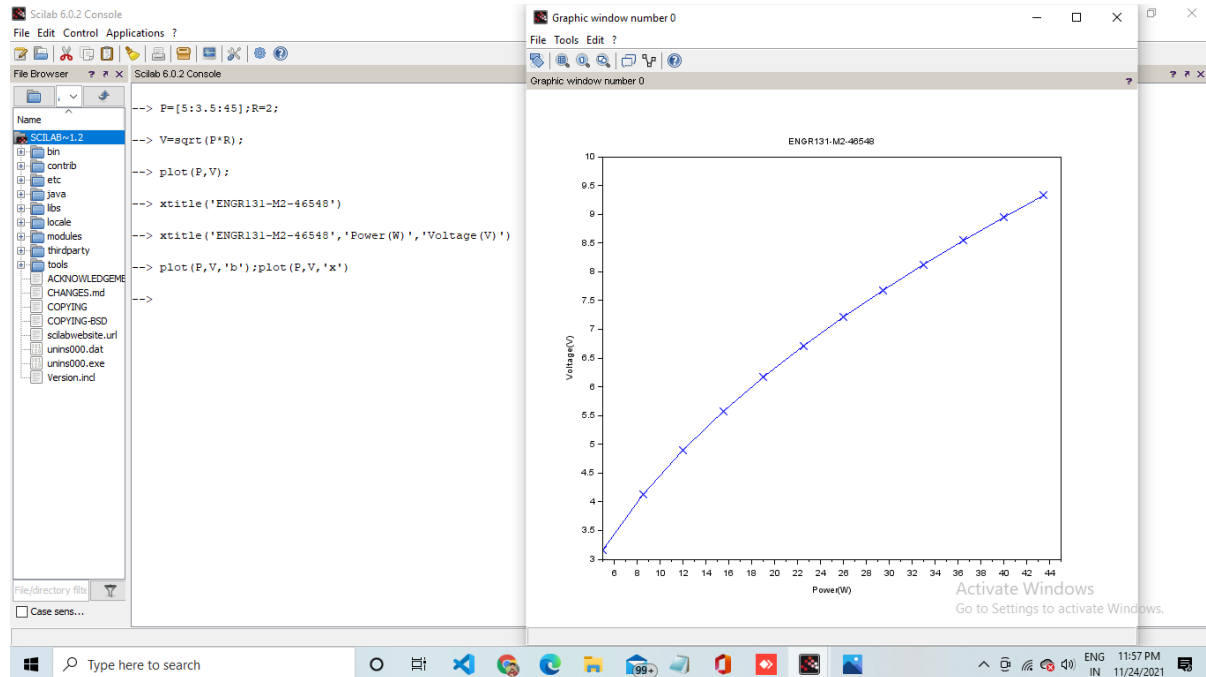
d)



e)



f)



g)

Assignment-5 Part-2 Mohammedalsehali.sce (C:\Users\milan\Downloads\Assignment-5 Part-2 Mohammedalsehali.sce) - SciNotes

```

1 P=$OUMvadepp.patra
2 R=2;
3 V=sqrt(P*R);
4 plot(P,V);
5 xtitle('ENGR131-M2-46548');
6 xtitle('ENGR131-M2-46548','Power (W)', 'Voltage (V)');
7 plot(P,V,'b');
8 plot(P,V,'x');
9

```

Activate Windows  
Go to Settings to activate Windows.