EXPERIMENT - 8

APPLIED MATHEMATICS LAB

Aim

To plot unit step function and square wave function.

Syeda Reeha Quasar
14114802719
4C7

EXPERIMENT – 8

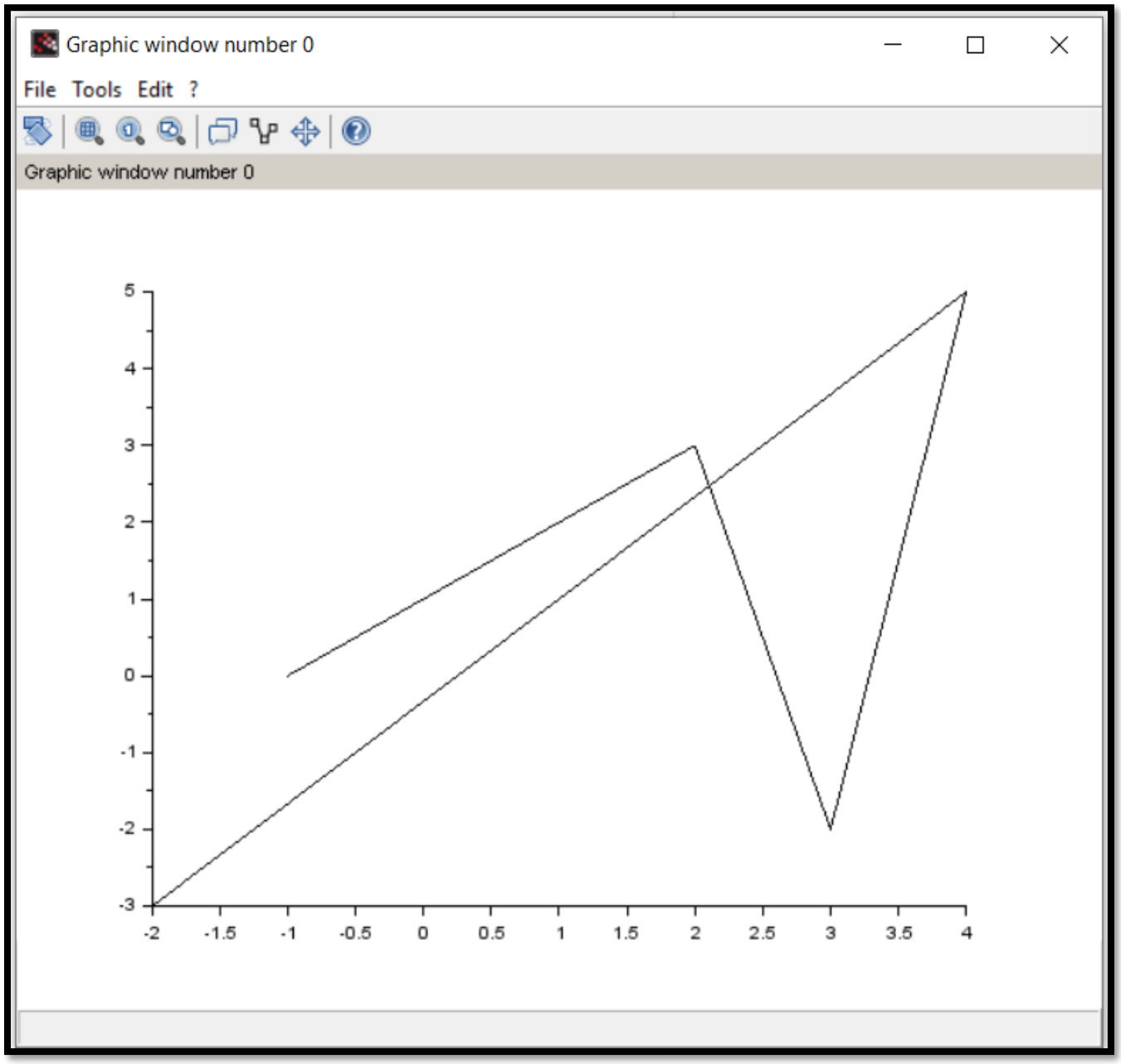
Aim:

To plot unit step function and square wave function.

Source Code:

```
clc;

printf('\n\n Name - Syeda Reeha Quasar \n Enrolment No. - 14114802719 \n
Group - C7 \n\n')

x = [1 -1 2 3 4 -2]
y = [2 0 3 -2 5 -3]

plot2d(x, y)
```

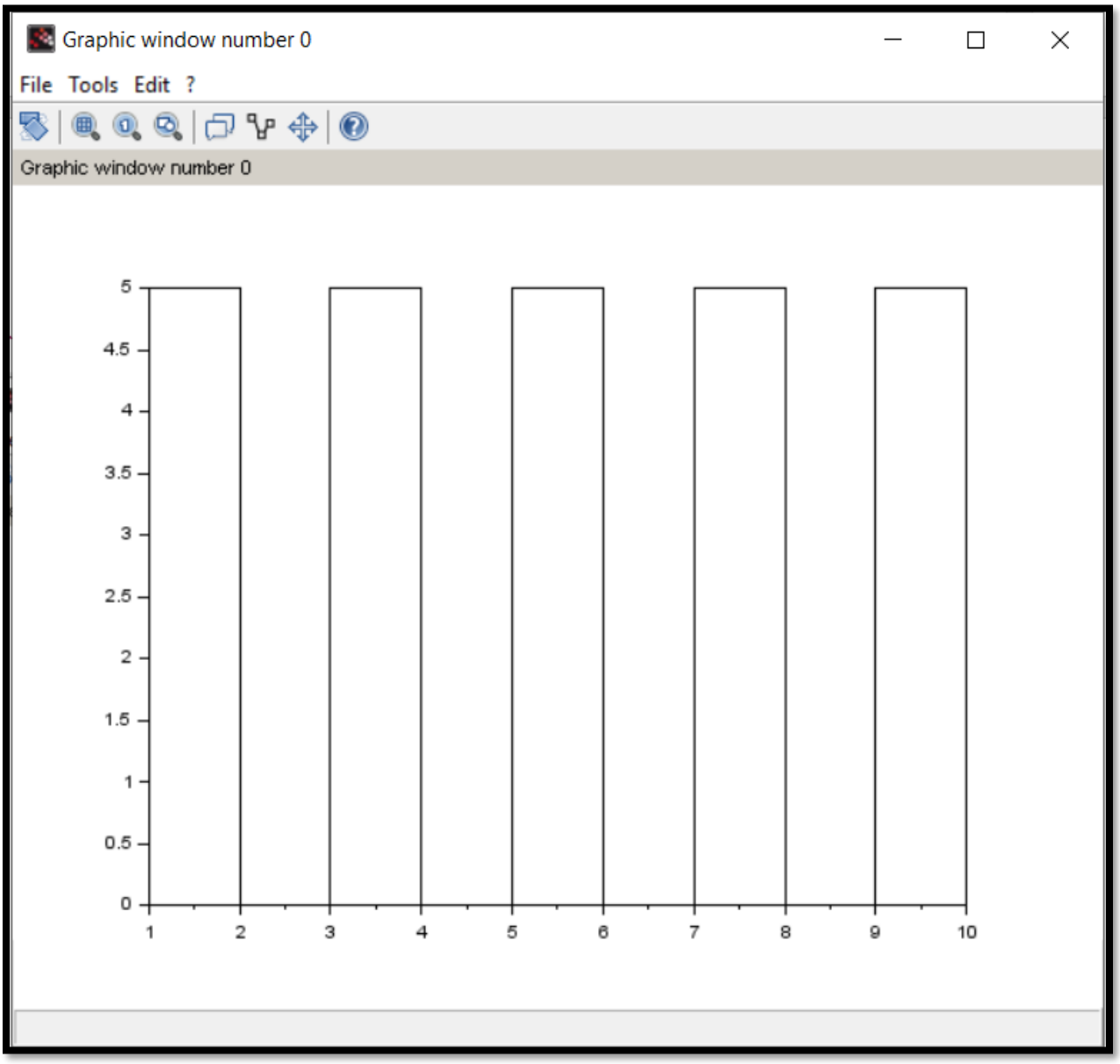
Output:


Graphic window number 0
File Tools Edit ?
Graphic window number 0
5
4
3
2
1
0
-1
-2
-3
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4

//generation of square wave

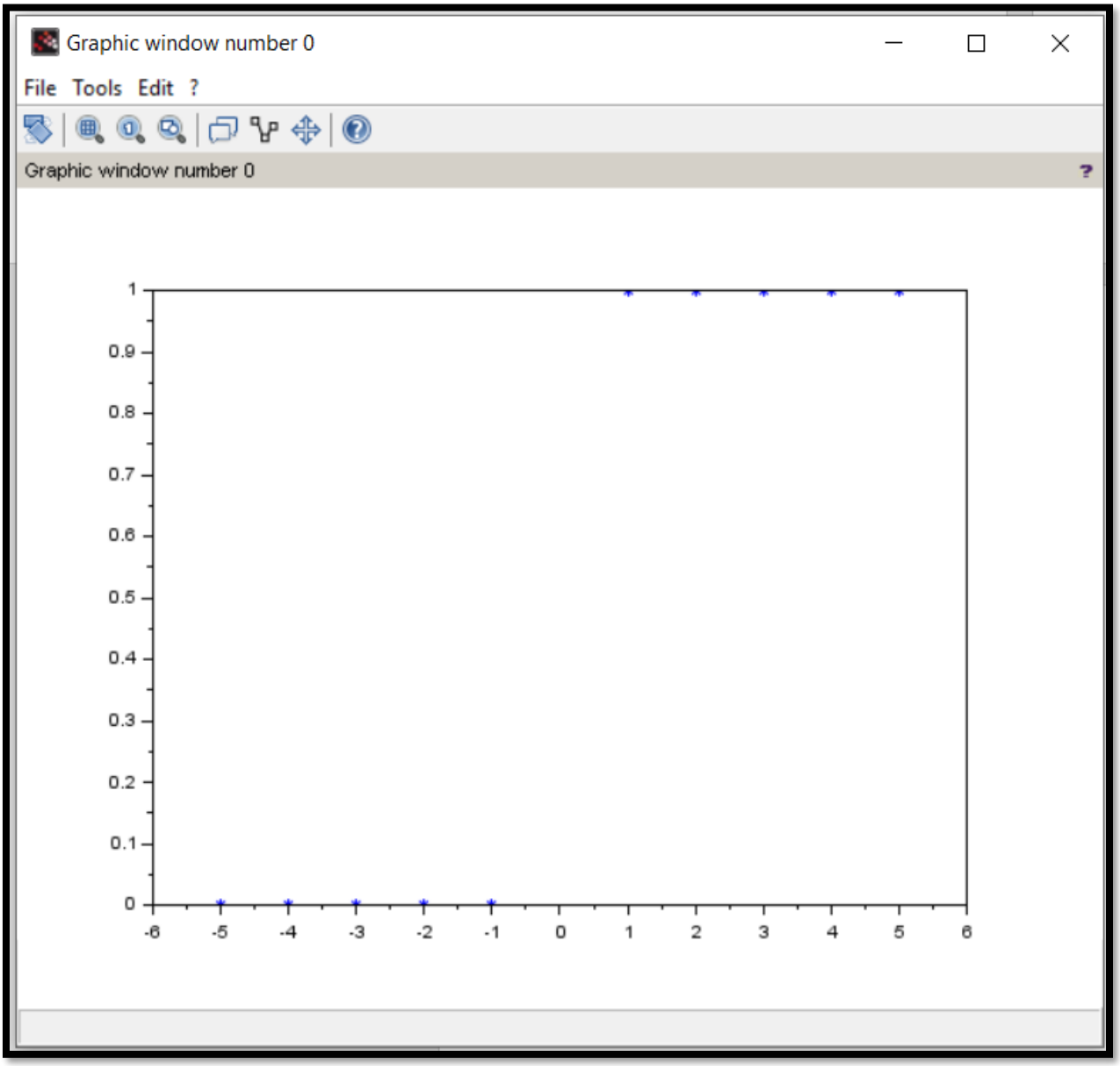
```
clc;

printf('\n\n Name - Syeda Reeha Quasar \n Enrolment No. -
14114802719 \n Group - C7 \n\n')

x = [1 2 3 4 5 6 7 8 9 10];
y = [5 0 5 0 5 0 5 0 5 0];

plot2d2(x, y)
```

Output:


Graphic window number 0
File Tools Edit ?
Graphic window number 0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
2
3
4
5
6
7
8
9
10

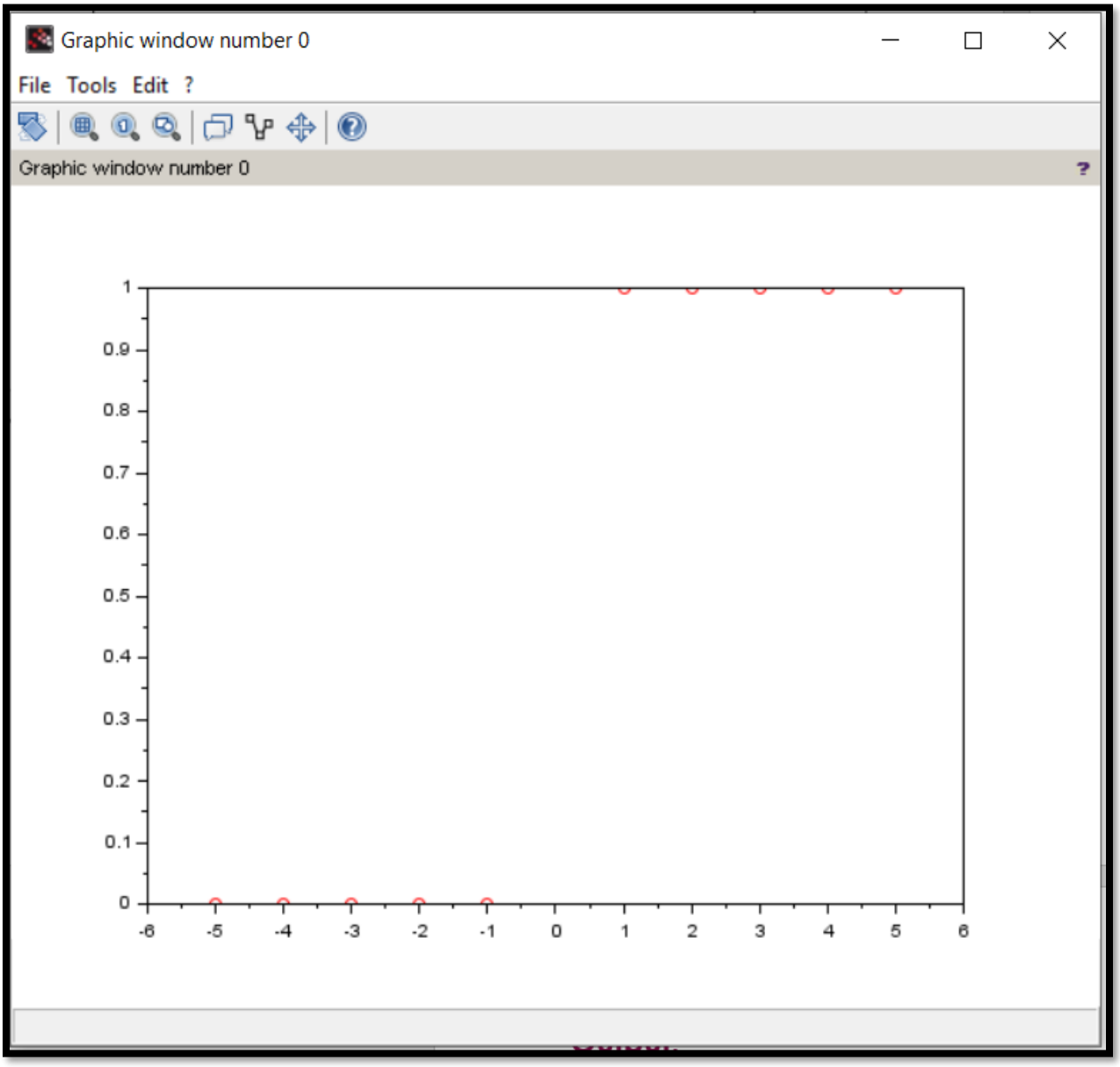
```
// unit step function

clc;

x = [-1 -2 -3 -4 -5 1 2 3 4 5];
y = [0 0 0 0 0 1 1 1 1 1];

//plot(x, y, 'ro');

plot(x, y, 'd*');
```

Output:


Graphic window number 0
File Tools Edit ?
Graphic window number 0
?
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-6
-5
-4
-3
-2
-1
0
1
2
3
4
5
6

```
// unit step function

clc;

x = [-1 -2 -3 -4 -5 1 2 3 4 5];
y = [0 0 0 0 0 1 1 1 1 1];

plot(x, y, 'ro');

//plot(x, y, 'd*');
```

Output:


Graphic window number 0
File Tools Edit ?
Graphic window number 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-6
-5
-4
-3
-2
-1
0
1
2
3
4
5
6