

Name : **Ritik Mandloi**  
Roll No: **180101066**

PLL Assignment V  
Readme

## INSTRUCTIONS FOR EXECUTION:

### A) 180101066\_partA.pl

1. Open terminal inside the 180101066\_AssignV folder.
2. Type : **swipl -s 180101066\_partA.pl**
3. Enter Your Input for the program by calling the function in the format given below.

Format : **squareroot(<number>, <number/2>, <accuracy>).**

Example: **squareroot(4,2,0.0001).**  
**squareroot(42.25,21.125,0.0001).**  
**squareroot(3,1.5,0.0001).**

### B) 180101066\_partB.pl

1. Open terminal inside the 180101066\_AssignV folder.
2. Type : **swipl -s 180101066\_partB.pl**
3. Enter Your Input for the program by calling the function in the format given below.

Format : **sublist(<list1>, <list2>).**

Example: **sublist([1,2],[1,2,3]).**  
**sublist([], [1,2,3]).**  
**sublist([], []).**

I have provided the screenshots for better understanding of execution in the next page.

## PART A

```
mandloi@mandloi-VirtualBox:~/Music/180101066_AssignV$ swipl -s 180101066_partA.pl
Welcome to SWI-Prolog (threaded, 64 bits, version 7.6.4)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit http://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?- squareroot(4,2,0.001).
2
true .

?- squareroot(42.25,21.125,0.00000001).
6.4999999999199645
true .

?- squareroot(0,0,0.00000001).
0
true .

?- squareroot(1,0.5,0.0001).
1
true .

?- squareroot(-4,0.5,0.0001).
You entered a negative number!
true .

?- 
```

## PART B

```
mandloi@mandloi-VirtualBox:~/Music/180101066_AssignV$ swipl -s 180101066_partB.pl
Welcome to SWI-Prolog (threaded, 64 bits, version 7.6.4)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit http://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).

?- sublist([],[]).
true.

?- sublist([1],[1]).
true .

?- sublist([2],[1,2,3]).
true .

?- sublist([], [1,2,3]).
true.

?- sublist([2,1],[1,2,3]).
false.

?- sublist([2,5,1],[1,2,1,5,3]).
false.

?- sublist([2],[]).
false.

?- sublist([1,2,3,4,5,6,7,8,9],[0,1,2,3,4,5,6,7,8,9,10]).
true .

?- 
```