IIT Guwahati, Dept of CSE, CS331: Prog. Lang Lab **Assignment V: Basic Prolog Programming**

Soft deadline: 11.55 PM IST, 2nd April 2021 (Hard deadline of MS team: submission will not allowed after 11.55 PM 3rd April 2021)

- Write a Prolog predicate to find sqaure root of positive number: sqaureroot (X, result, accuracy), where |result*result-X| <accuracy. Initialize result with X/2 and iterate to find the sqaure root.
- Write a Prolog predicate sublist(X,Y) that is true if list X is a sublist of list Y. A sublist is defined as the original list, in the same order, but in which some elements may have been removed. For instance (user input is in red):

```
?- sublist([a,b],[a,e,b,d,s,e]).
Yes
?- sublist([a,b],[a,e,e,f]).
No
?- sublist([a,b],[b,a]).
No
?- sublist([],[a,e,e,f]).
Yes
?- sublist([a],[]).
No
```