BRAINWARE UNIVERSITY

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Subject: Artificial Intelligence Lab

Subject code:BCA691

Assignment: week 5

Prolog problems:-

1.)Write a prolog(swi) program to insert _nth(item,n,into_list,result) that asserts that is the listinto_list with item inserted as the n_th element into every list at all levels .

```
Code)
mem(X,[X|_]).
mem(X,[_|T]):- mem(X,T).
/* insert a number in the list. */
```

```
insert(L,[X|Y],[L|_]).
insert(L,P,[X|Y],[X|M]):-
P>1,
P1 is P-1,
insert(L,P1,Y,M).
insert(L,1,[X|Y],M):- append([L],[X|Y],M).
OUTPUT:
?- ['insertinlist.pl'].
true.
?- insert(10,2,[1,2,3,4],M).
M = [1, 10, 2, 3, 4]
```