**LIST IN PROLOG**

**LAB WORK**

**1: Program**

Domains list=Integer\*.

Predicates

length\_of(list,Integer)

clauses

length\_of([],0).

length\_of([\_|T],L):-length\_of(T,Taillength),L=Taillength+1.

Goal length\_of([1,2,3],L).

**OUTPUT**

L=3

1 Solution

**TASK**

**Object 01:**

Write a program that initialize a list of 3 elements. Print that list as output in reverse order.

**Source Code:**

domains

list=integer\*

predicates

revlist(list,list)

rev(list,list,list)

clauses

revlist(Inputlist,Outputlist):-

rev(Inputlist,[],Outputlist).

rev([],Outputlist,Outputlist).

rev([Head|Tail],List1,List2):-

rev(Tail,[Head|List1],List2).

Goal: revlist([1,2,3],Result).

**OUTPUT**

Result=[3,2,1]

1 Solution