Name : Harshang Nareshkumar Makwana
Roll No : 9207 , Comp_A

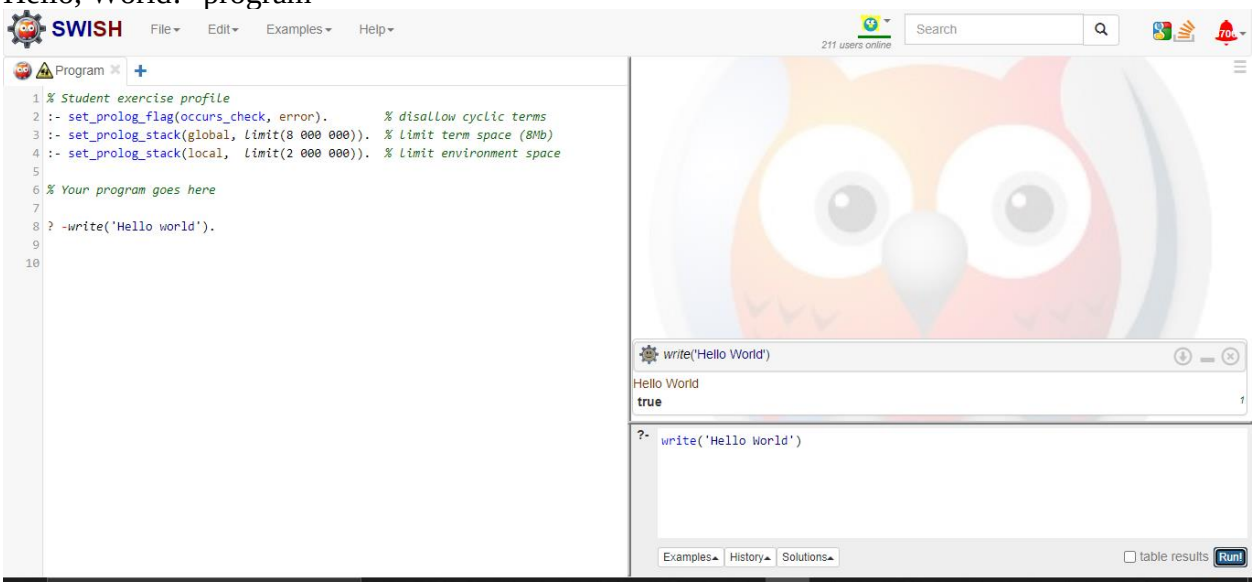
Experiment No: 6

Title: Prolog Programming Set 1

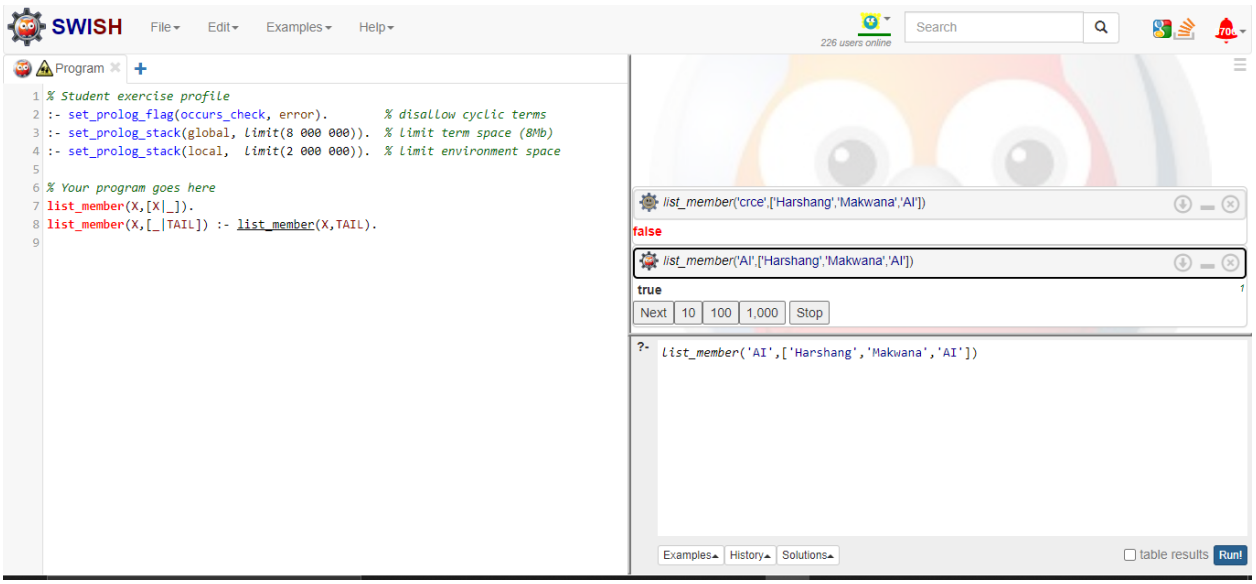
Objective: To get acquainted with logical programming

Implement

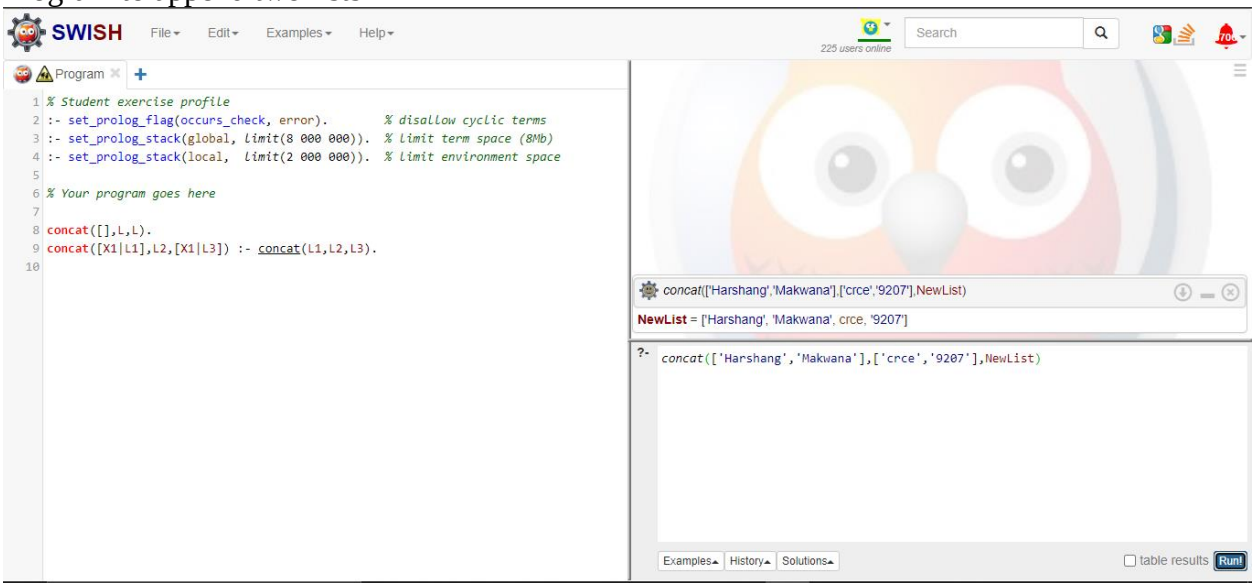
1. Hello, World!" program



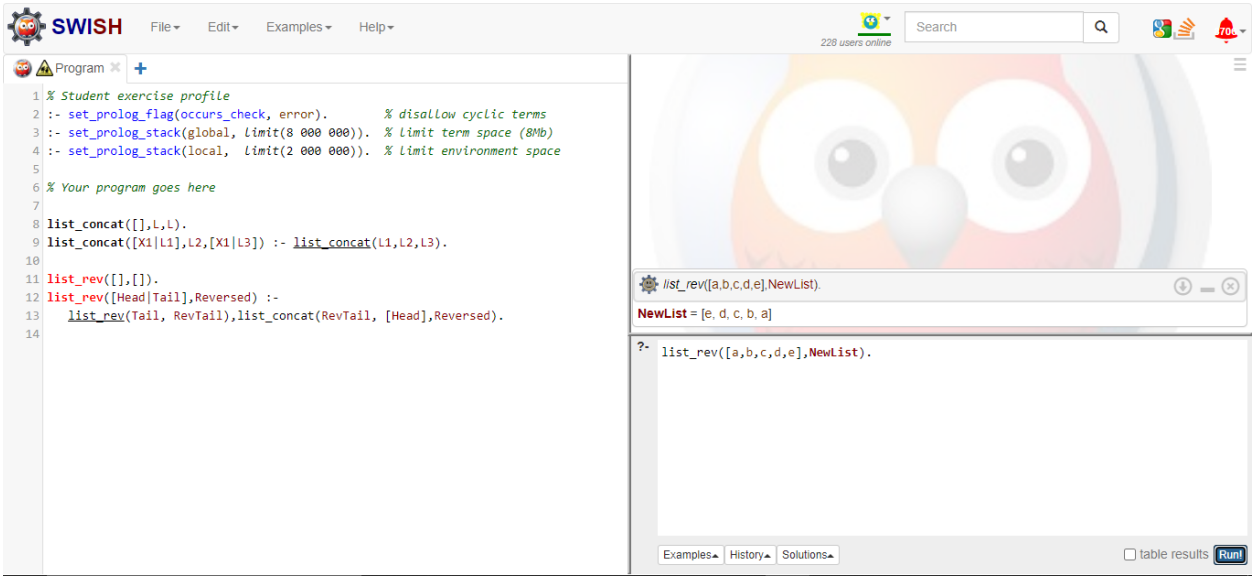
2. Program to check if an element is a member of a list



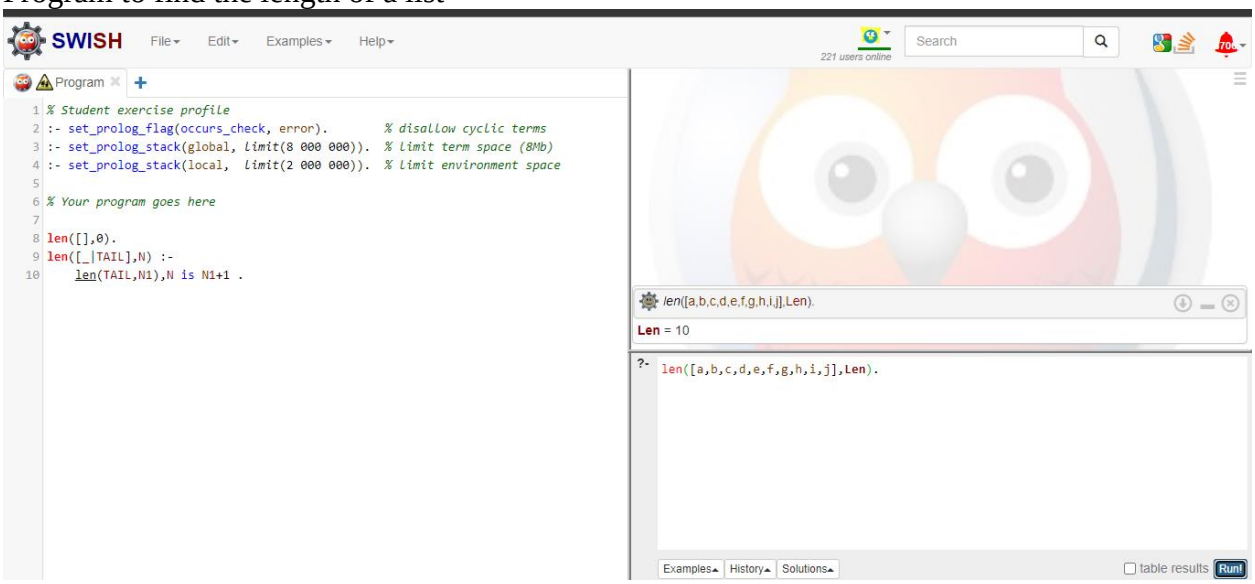
3. Program to append two lists



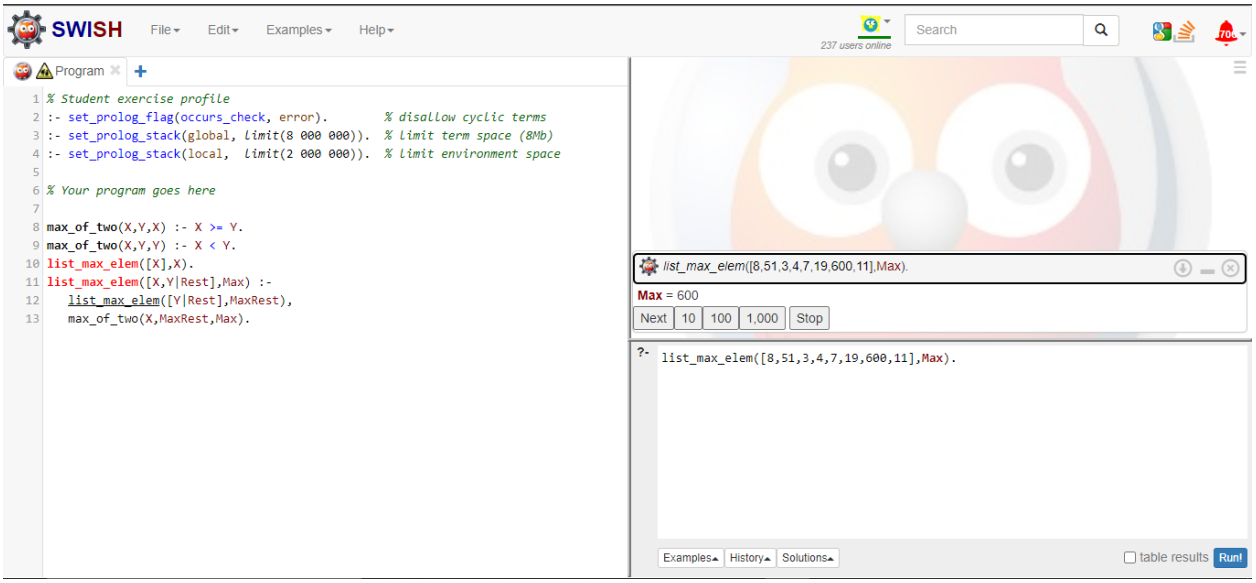
4. Program to reverse a list



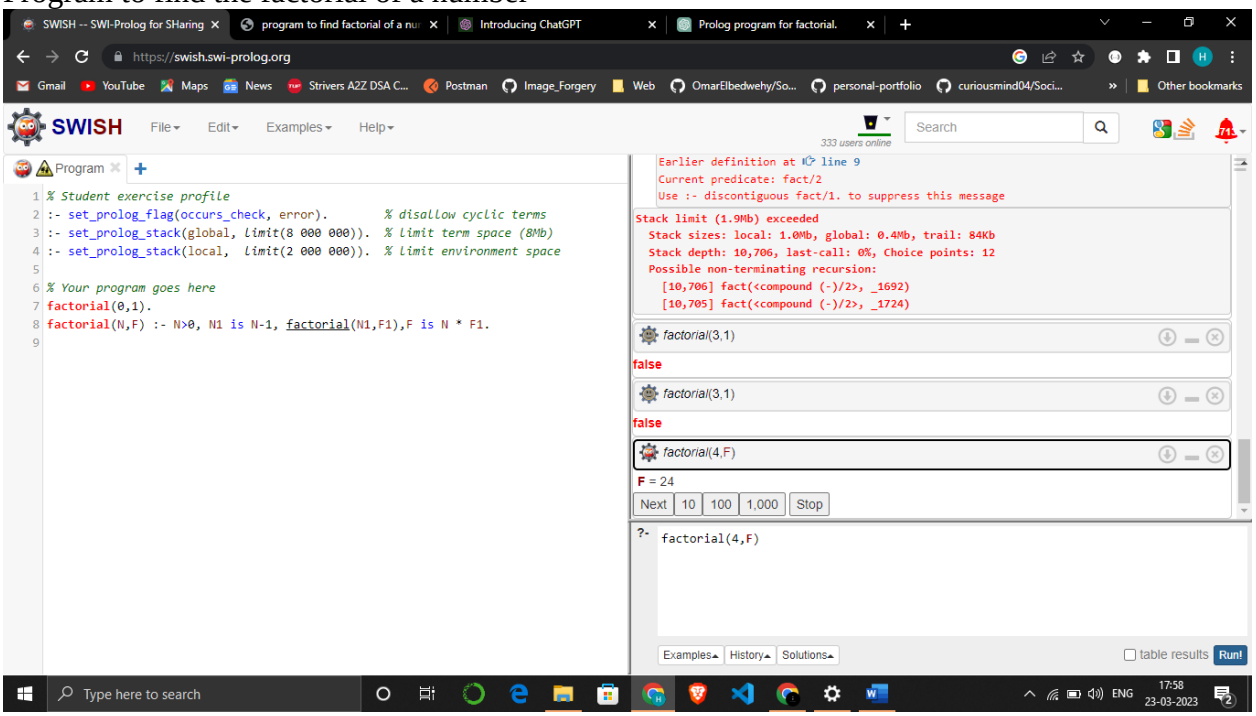
5. Program to find the length of a list



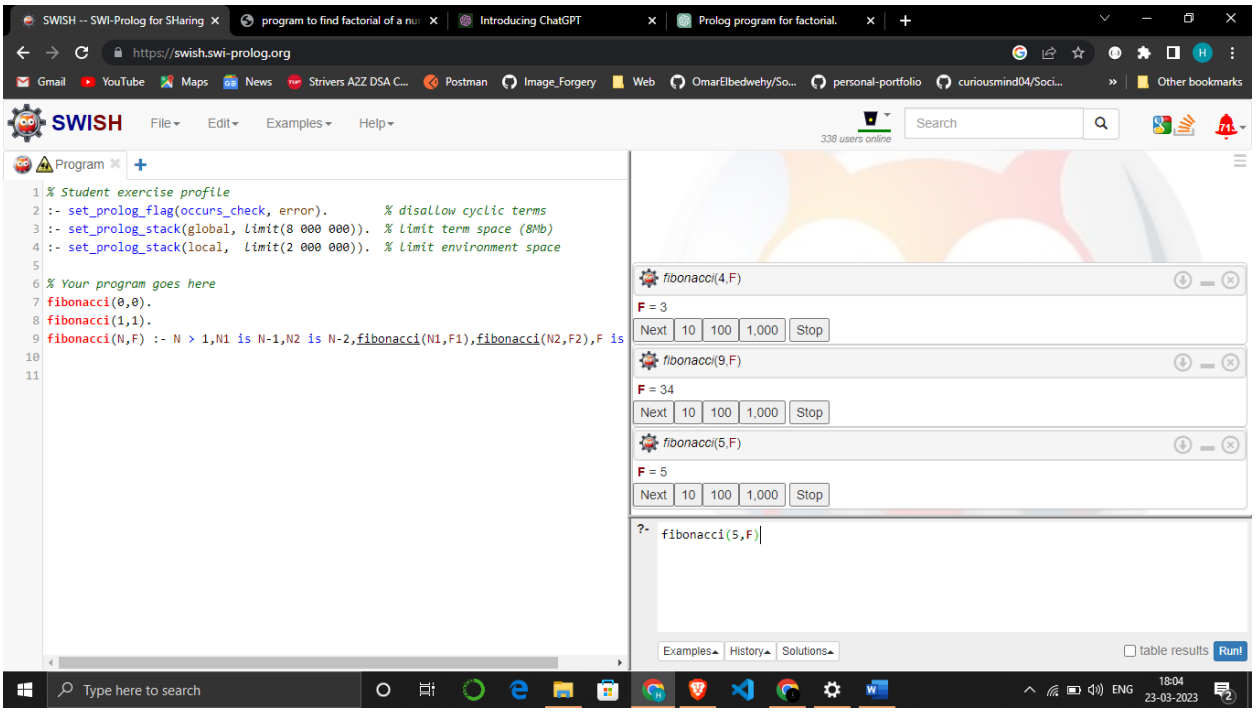
6. Program to find the maximum of two numbers



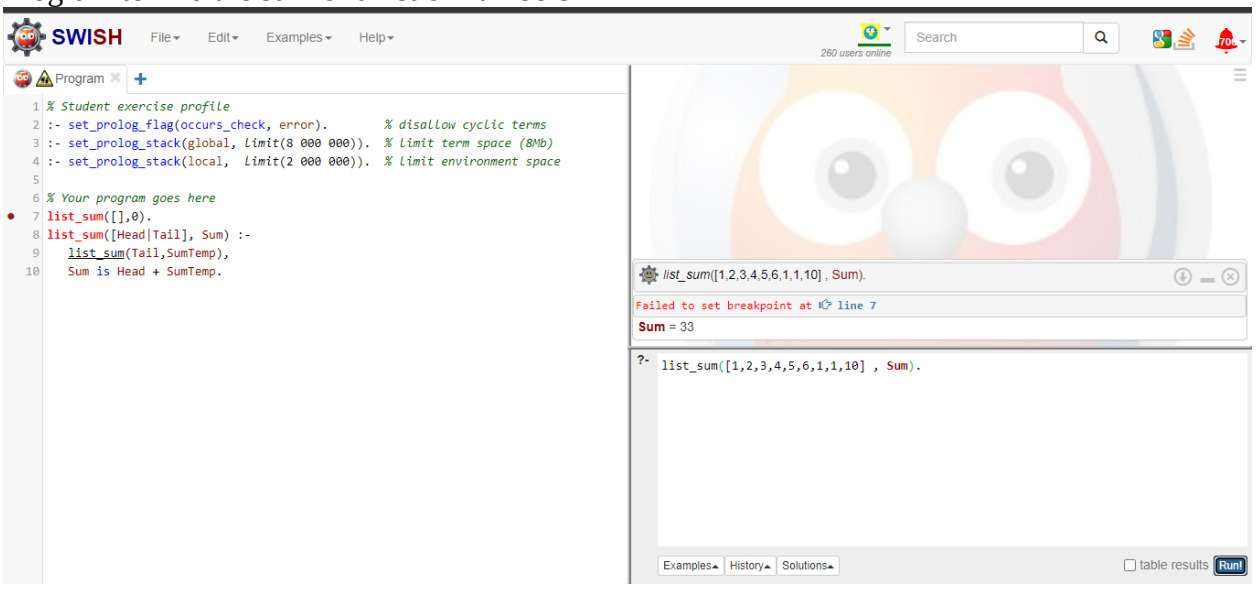
7. Program to find the factorial of a number



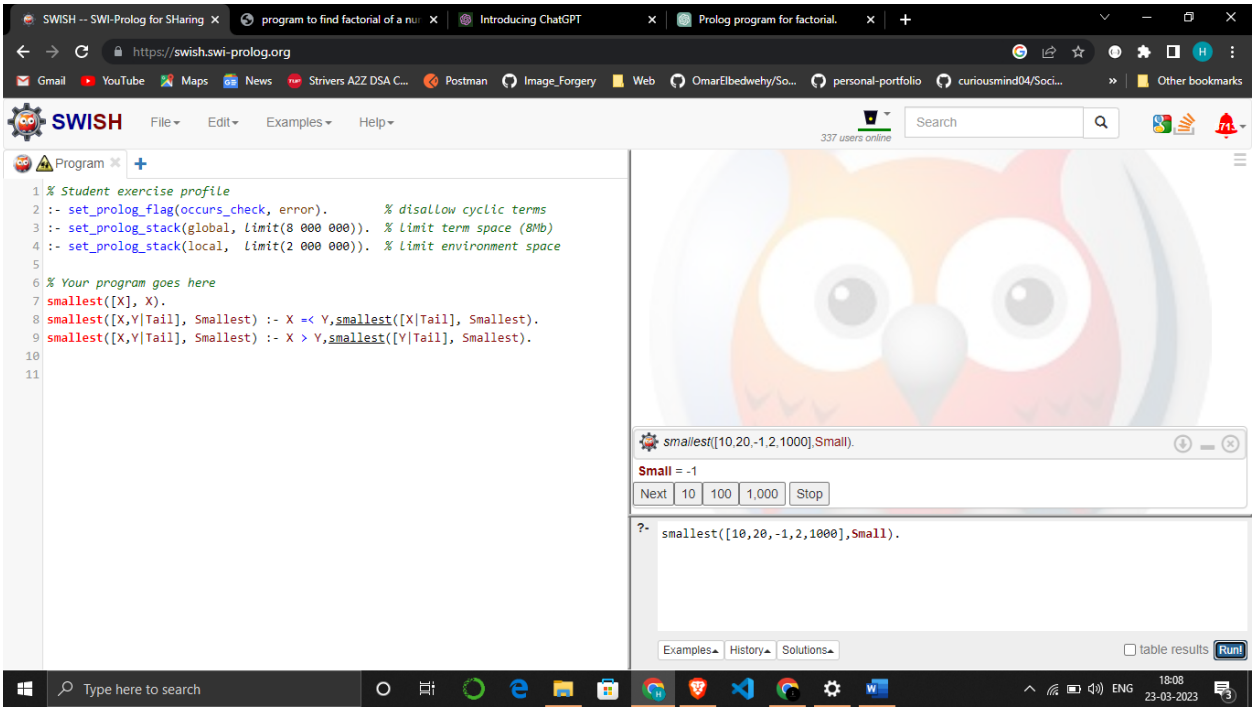
8. Program to find the nth Fibonacci number



9. Program to find the sum of a list of numbers



10. Program to find the smallest element in a list.


SWISH -- SWI-Prolog for SHaring
program to find factorial of a nur
Introducing ChatGPT
Prolog program for factorial.
https://swish.swi-prolog.org
Gmail
YouTube
Maps
News
Strivers A2Z DSA C...
Postman
Image_Forgery
Web
OmarElbedwehy/So...
personal-portfolio
curiousmind04/Soci...
Other bookmarks
SWISH
File
Edit
Examples
Help
337 users online
Search
Program
% Student exercise profile
:- set_prolog_flag(occurs_check, error). % disallow cyclic terms
:- set_prolog_stack(global, limit(8 000 000)). % limit term space (8Mb)
:- set_prolog_stack(local, limit(2 000 000)). % limit environment space
% Your program goes here
smallest([X], X).
smallest([X,Y|Tail], Smallest) :- X =< Y,smallest([X|Tail], Smallest).
smallest([X,Y|Tail], Smallest) :- X > Y,smallest([Y|Tail], Smallest).
smallest([10,20,-1,2,1000],Small).
Small = -1
Next
10
100
1,000
Stop
?-
smallest([10,20,-1,2,1000],Small).
Examples
History
Solutions
table results
Run!
Type here to search
ENG
18:08
23-03-2023