Roll Number: 9237

Name: Valiaparambil Ryan Taffy

Experiment No: 6

Title: Prolog Programming Set 1

Objective: To get acquainted with logical programming

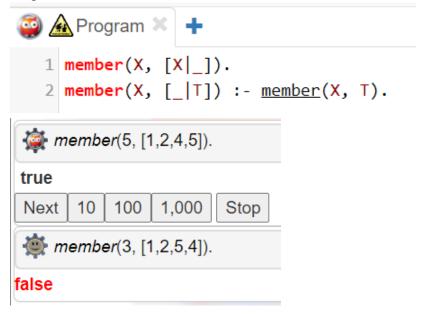
Implement

1. Hello, World!" program

```
write('Hello, World!'), nl.
Hello, World!
true

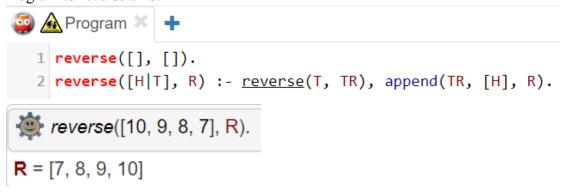
?- write('Hello, World!'), nl.
```

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

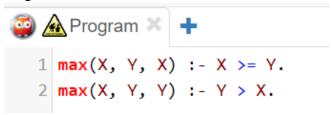


5. Program to find the length of a list

```
Plength([1,2,3,4],N).
N = 4

Plength([1,2,3,4],N).
```

6. Program to find the maximum of two numbers

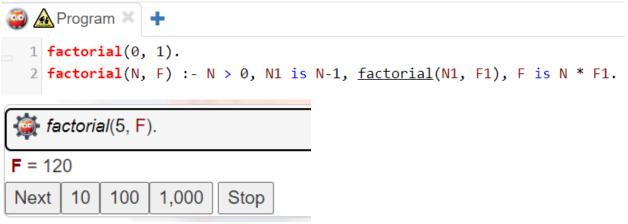


```
max(48, 82, Max).

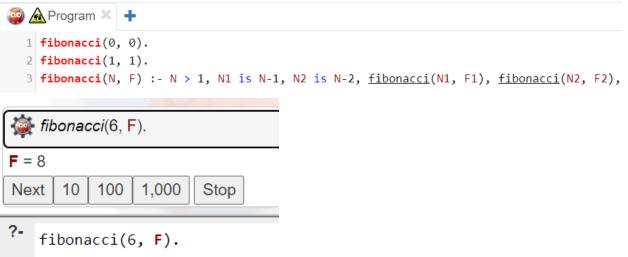
Max = 82

?- max(48, 82, Max).
```

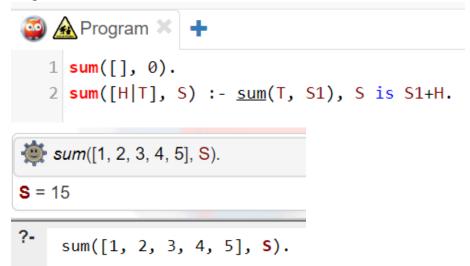
7. Program to find the factorial of a number



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.

