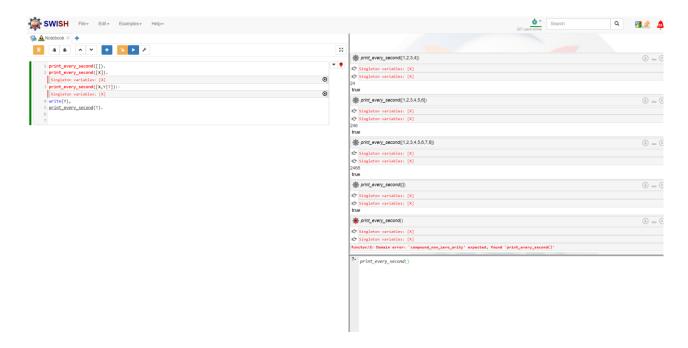
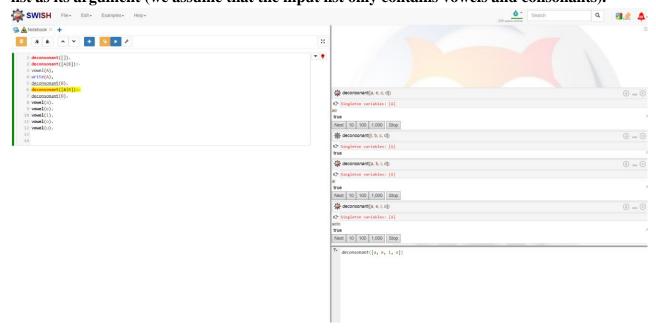
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Actividad 5.1 Programación Lógica

1. Write a predicate print every second/1 to print every other element in a list, beginning at the second element —i.e. the 2nd, 4th, 6thelements etc. It should always succeed provided it is given a list as its argument.

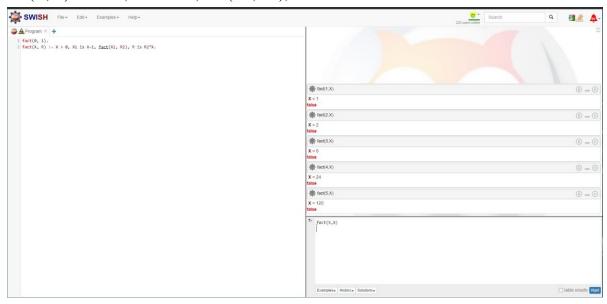


2. Write a predicate deconsonant/1 to print any element of a list that isn't a consonant (i.e. we want to print out the vowels fa,e,i,o,ug). It should always succeed provided it is given a list as its argument (we assume that the input list only contains vowels and consonants).



7. Write a predicate fact/2 which takes a natural number as first argument and returns the factorial of the number.

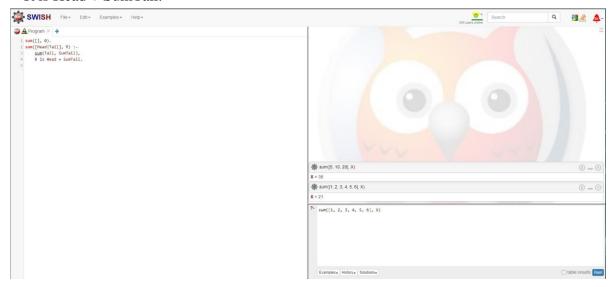
fact(0, 1). fact(X, R):- X > 0, X1 is X-1, fact(X1, R2), R is R2*X.



16. Define sum/2 to take a list of integers as input and return the output as their sum. sum([], 0).

sum([Head|Tail], R):sum(Tail, SumTail),

R is Head + SumTail.



19. Write a predicate split/4 that splits a list into two parts, the length of the first part is given.

split(L,0,[],L).

split([Head|TailX],N,[Head|TailY],List2):-N>0, N1 is N-1, split(TailX,N1,TailY,List2).

