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## Actividad 5.1 Programación Lógica

**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.`

The screenshot shows the SWISH Prolog IDE interface. On the left, the 'Program' tab contains the following code:

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

On the right, the 'Solutions' tab displays the results of several queries:

- `fact(1, X)`: `X = 1`, `false`
- `fact(2, X)`: `X = 2`, `false`
- `fact(3, X)`: `X = 6`, `false`
- `fact(4, X)`: `X = 24`, `false`
- `fact(5, X)`: `X = 120`, `false`

Below these, a query `?- fact(5, X)` is shown with a blank result area. At the bottom right, there are tabs for 'Examples', 'History', and 'Solutions', along with a 'table results' checkbox and a 'Run' button.