*See the example ‘FamilyCode’ in the folder ‘Prolog’ under ‘Modules’.*

These examples come from the site <http://www.mind.ilstu.edu/curriculum/protothinker/prolog_intro.php>

Let's tell the computer some facts about a family we know. We'll put the Prolog statement after the English statement.

|  |  |  |
| --- | --- | --- |
| **English** |  | **Prolog** |
| John is the father of Susan. |  | father(john,susan). |
| John is the husband of Martha. |  | husband(john,martha). |
| John eats pizza. |  | eats(john,pizza). |
| Susan eats pizza. |  | eats(susan,pizza). |
| Martha eats pizza. |  | eats(martha,pizza). |
| Susan eats oranges. |  | eats(susan,oranges). |
| John bought pizza for Martha. |  | bought(john,pizza,martha). |
| Susan is tired. |  | tired(susan). |

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Below are sample English questions, their Prolog equivalent, and the answer from Prolog. Assume we have loaded the above facts into Prolog already.

|  |  |  |
| --- | --- | --- |
| **English question** | **Prolog (at prompt ?-)** | **Prolog responds** |
| Is John the father of Susan? | father(john,susan). | yes (or true) |
| Is Susan tired? | tired(susan). | yes |
| Is Martha tired? | tired(martha). | no (or false) |
| Who is tired? | tired(X). | X = susan |
| Who is the husband of Martha? | husband(X,martha). | X = john |
| Who eats pizza? | eats(X,pizza). | X = john |
| Who else eats pizza? | merely hit spacebar | X = martha |
| Who else eats pizza? | hit spacebar again | X = susan |
| Who else eats pizza? | hit spacebar yet again | no |