

Welcome to SWI-Prolog (threaded, 64 bits, version 9.0.4)
SWI-Prolog comes with **ABSOLUTELY NO WARRANTY**. This is free software.

Projekt „Książki i Komiksy”

przedmiot *Programowanie Deklaratywne*

Skąd mamy bazę wiedzy o książkach?




Python → Prolog

(Rzeczywiste Dane są
lepsze od GPT)



Python → Prolog

(Rzeczywiste Dane > GPT)



```
1 import pandas as pd
2
3 columns = ['title', 'authors', 'average_rating', 'num_pages', 'publication_date']
4 df = pd.read_csv('books.csv',
5                 error_bad_lines=False,
```

Baza wiedzy o książkach

(Proof of Concept)




```
1 book('The Drawing of the Three (The Dark Tower #2)', author('Stephen King'), year(2003), page_count(463), rating(4.23)).
2 book('Salems Lot', author('Stephen King'), year(1975), page_count(405), rating(4.02)).
3 book('Carrie / Salems Lot / The Shining', author('Stephen King'), year(2002), page_count(1096), rating(4.54)).
4 book('Salems Lot', author('Stephen King'), year(1979), page_count(427), rating(4.02)).
5 book('Salems Lot', author('Stephen King'), year(2010), page_count(586), rating(4.02)).
```

Funkcje dla książek

(Podobne są dostępne
dla komiksów)

```
1 %checks whether two books were released in the same year
2 book_same_year(Book1,Book2) :-
3     book(Book1,_,year(Year),_,_),
4     book(Book2,_,year(Year),_,_).
5
6 %checks whether two books have the same author
7 book_same_author(Book1,Book2):-
8     book(Book1,author(Author),_,_,_),
9     book(Book2,author(Author),_,_,_).
10
11 %checks whether Book1 is longer than Book2
12 book_is_longer(Book1,Book2):-
13     book(Book1,_,_,page_count(Pages1),_),
14     book(Book2,_,_,page_count(Pages2),_),
15     Pages1>Pages2.
16
17 %checks whether Book1 has a higher rating than Book2
18 book_higher_rating(Book1,Book2):-
19     book(Book1,_,_,_,rating(Rating1)),
20     book(Book2,_,_,_,rating(Rating2)),
21     Rating1>Rating2.
22
```

Wypisywanie danych o komiksie

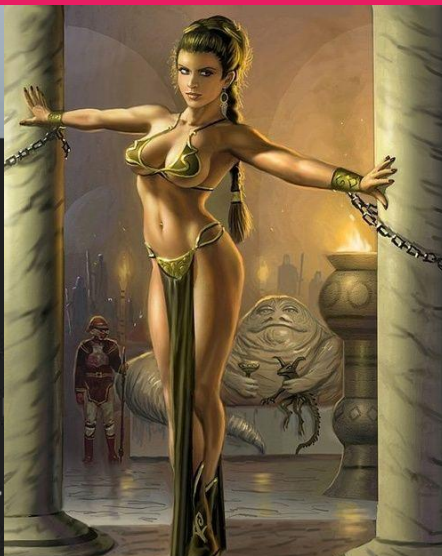


```
1 %prints all data about a comic
2 comic_data(Comic):-
3     comic(Comic,author(Author),year(Year),page_count(Pages),rating(Rating),adult_content(Adult_content)),
4     write(author),write(:),tab(1),write(Author),nl,
5     write(year),write(:),tab(1),write(Year),nl,
6     write(page),tab(1),write(count),write(:),tab(1),write(Pages),nl,
7     write(rating),write(:),tab(1),write(Rating),nl,
8     write(contains),tab(1),write(adult),tab(1),write(content),tab(1),write(:),tab(1),write(Adult_content).
```


Bezpieczne dla dzieci!



```
1 %checks whather a  
2 comic_contains_ad  
3 comic(Comic,_  
4 Adult content
```

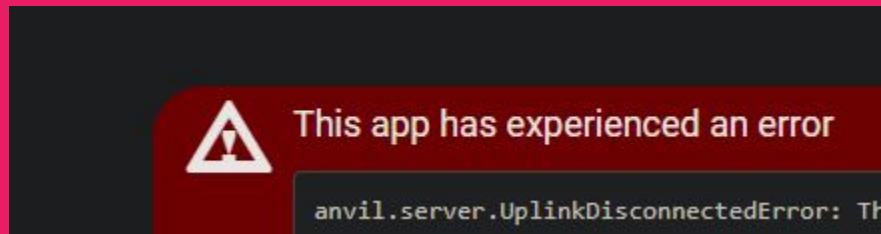


```
e for adults only  
):-  
ent(Adult_content)),
```


Biblioteka



```
1  %a library can hold any amount of books and comics in a named list
2  library(library0,['Lalka','Adventures of Example','Rok 1984']).
3
4  %prints the contents of a library
5  library_data(X):-library(X,[H|T]),write(H),nl,library_data_recursion(X,T).
6  library_data_recursion(X,[H|T]):-write(H),nl,library_data_recursion(X,T).
```



Nakładka Graficzna

Title of the first book

Lalka

Title of the second book

Rok 1984

CHECK SAME AUTHOR



Zapraszamy na Githuba

<https://github.com/KTFish/Prolog-Project/>