

Setup Prolog Environment

Prolog:

Prolog or PROgramming in LOGics is a logical and declarative programming language. It is one major example of the fourth generation language that supports the declarative programming paradigm. This is particularly suitable for programs that involve symbolic or non-numeric computation. This is the main reason to use Prolog as the programming language in Artificial Intelligence, where symbol manipulation and inference manipulation are the fundamental tasks.

Applications of Prolog:

Prolog is used in various domains. It plays a vital role in automation system. Following are some other important fields where Prolog is used –

- Intelligent Database Retrieval
- Natural Language Understanding
- Specification Language
- Machine Learning
- Robot Planning
- Automation System
- Problem Solving

Download Link:

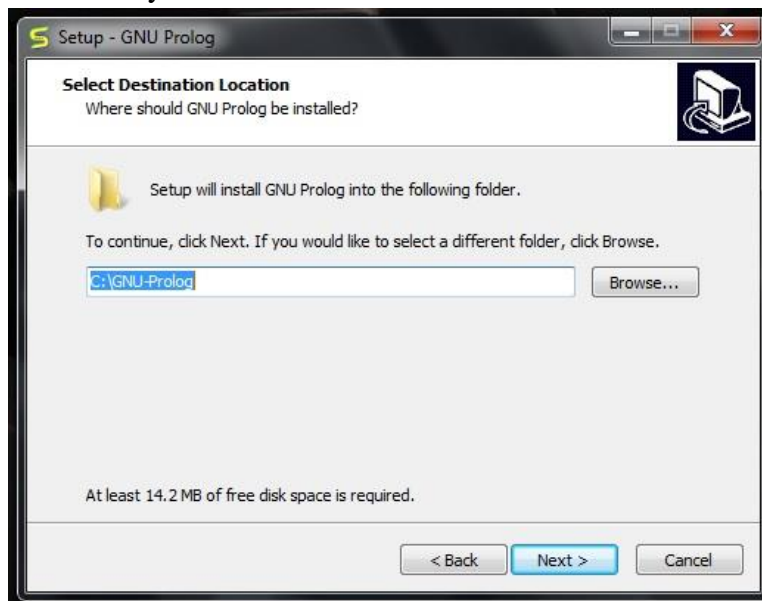
<http://www.gprolog.org/setup-gprolog-1.5.0-msvc-x64.exe>

Installation Guide:

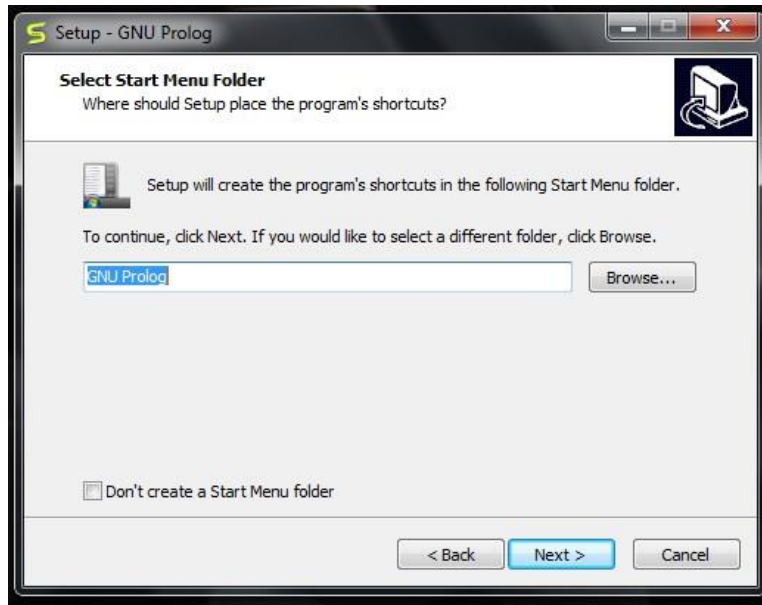
- Download the exe file and run it.
- You will see the window as shown below, then click on next –



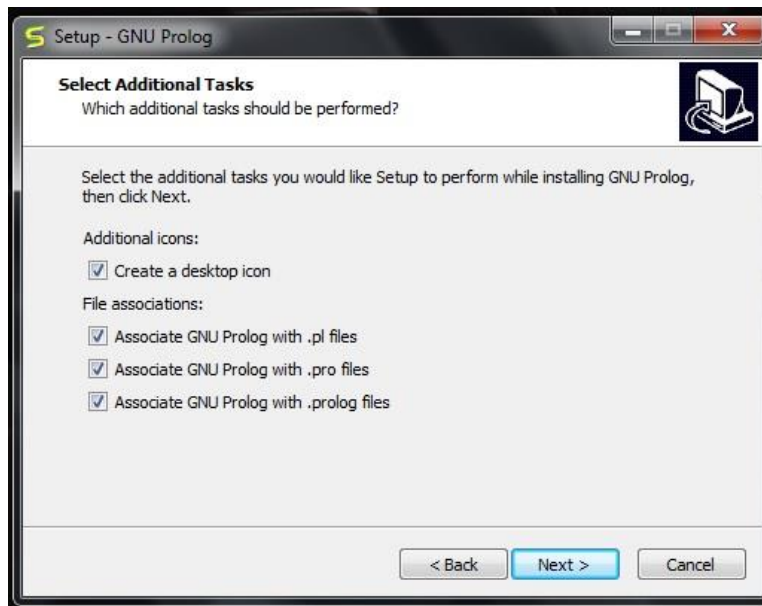
- Select proper directory where you want to install the software, otherwise let it be installed on the default directory. Then click on next.



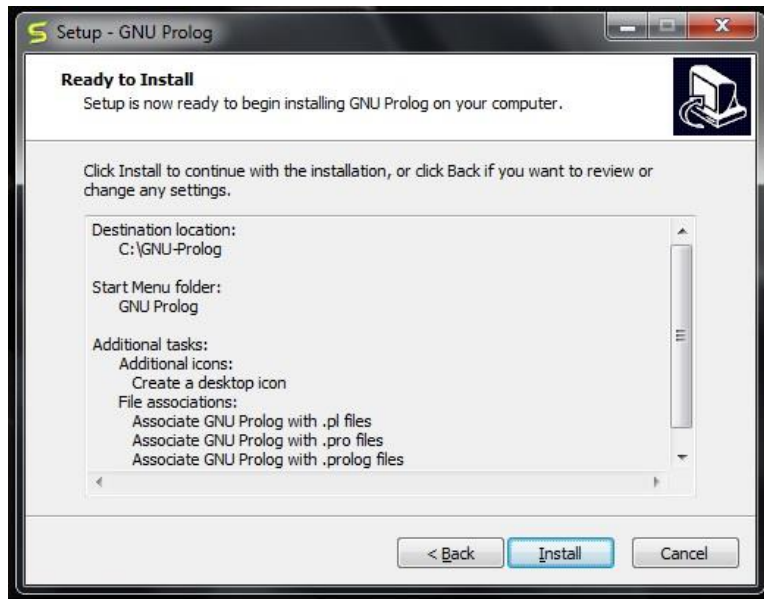
- You will get the below screen, simply go to next.



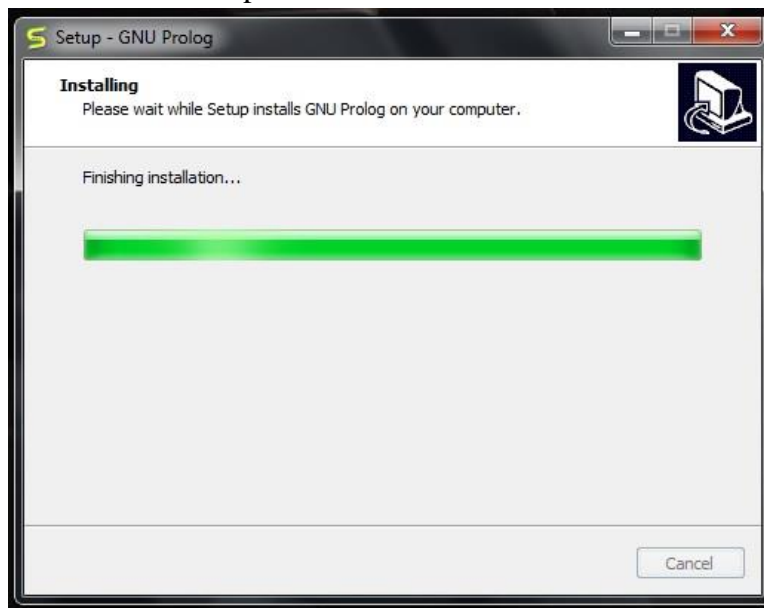
- You can verify the below screen, and check/uncheck appropriate boxes, otherwise you can leave it as default. Then click on next.



- In the next step, you will see the below screen, then click on Install.



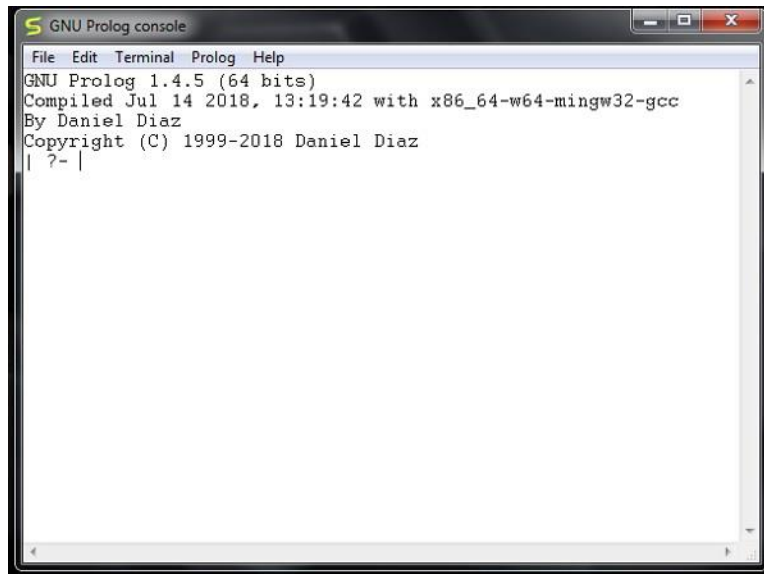
- Then wait for the installation process to finish.



- Finally click on Finish to start GNU Prolog.



- The GNU prolog is installed successfully as shown below –

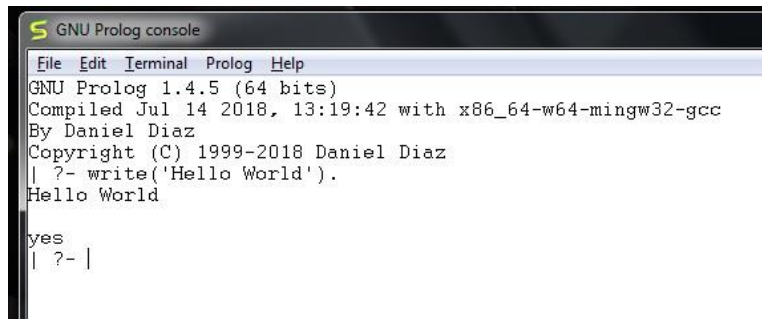


Test Installation:

After running the GNU prolog, we can write hello world program directly from the console. To do so, we have to write the command as follows –

write('Hello World').

The corresponding output will be as shown below –



```
GNU Prolog console
File Edit Terminal Prolog Help
GNU Prolog 1.4.5 (64 bits)
Compiled Jul 14 2018, 13:19:42 with x86_64-w64-mingw32-gcc
By Daniel Diaz
Copyright (C) 1999-2018 Daniel Diaz
| ?- write('Hello World').
Hello World

yes
| ?- |
```

References:

1. <https://www.tutorialspoint.com/prolog/index.htm>
2. <http://www.gprolog.org/>