## **Linking Prolog with Python:**

#### 1.Installation Guide:

* Installed python 64x (3.7.2)
* Installed prolog 64x (8.2.4)
* Installed pyswip(python) package with the command:

‘*pip install pyswip*’

#### 2.Logic Implementation:

Pyswip servers the role of bridge between python and prolog(send queries to prolog database and get response ).

User is provided with a list of relations(1-20), after selecting any relation he can send 2 types of queries and get response:

#### 2.1.1Simple query:

User inputs the name of the person for which he wants to find relation.

##### 2.1.2.Example:

For finding one’s father user will input the son’s name and father’s name will be shown (if father exist).Otherwise message “Person with this relation does not exist” will be shown .

##### 2.1.3.Query:

Following query is used:

prolog.query(f"baap(X,{name})")

#### 2.2.1.Validating a query :

For validating a query user inputs the two facts one by one and the response is shown in the form of true/false I,e if the query is correct True is shown and if the query is not correct than false is shown.

##### 2.2.2.Example:

For validating one’s mother name user inputs the son/daughter’s name as fact\_2, mother’s name is retrieved and matched with fact\_1 ,if both are same “True ” is outputted else “False ” is shown to user.

##### 2.2.3.Query:

Following query is be used:

prolog.query(f"maa(X,{fact2})

On performing any query user is asked whether he want to continue or not,if he want to continue menu is shown else program stops.