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**Admission no.: U19CS009**

**ARTIFICIAL INTELLIGENCE - ASSIGNMENT -2**

**Use SWI – Prolog for answering the following questions (load the rules in the file familytree.pl):**

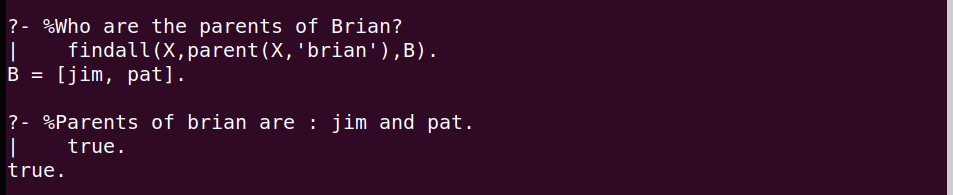
**1. Is Albert a parent of Peter?**



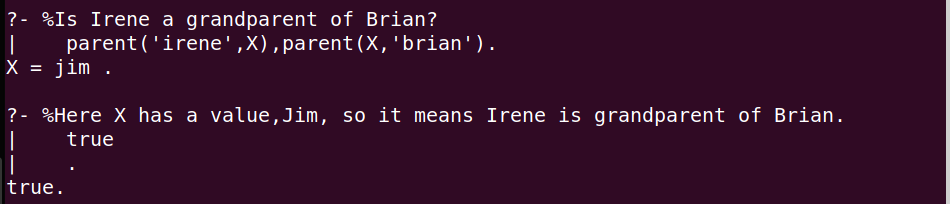
**2. Who is the child of Jim?**



**3. Who are the parents of Brian?**

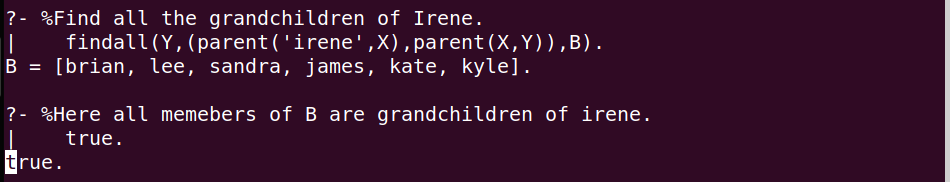


**4. Is Irene a grandparent of Brian?**



**Yes, Irene is a grandparent of Brian.**

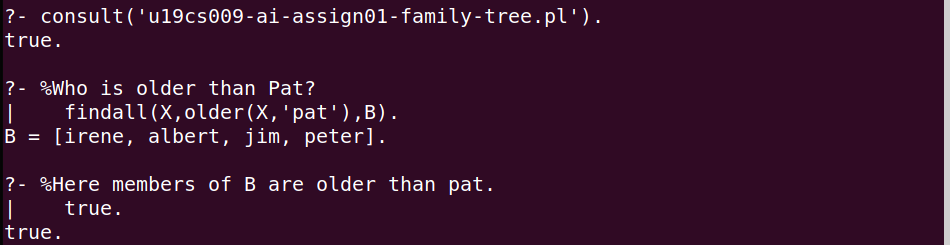
**5. Find all the grandchildren of Irene.**



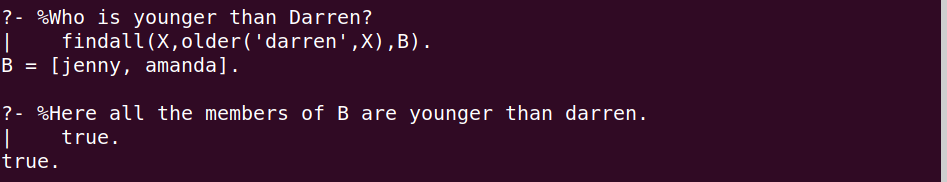
**6. Now add the following rule to familytree.pl and re-consult:**

**older(Person1, Person2) :- yearOfBirth(Person1, Year1), yearOfBirth(Person2, Year2), Year2 > Year1.**

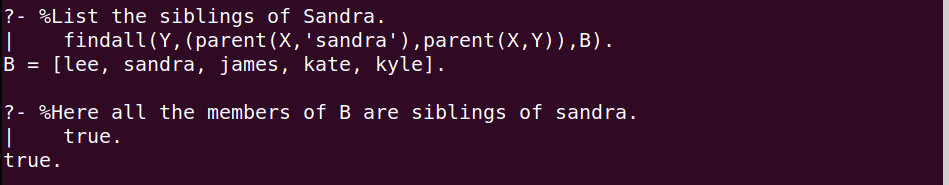
**7. Who is older than Pat?**



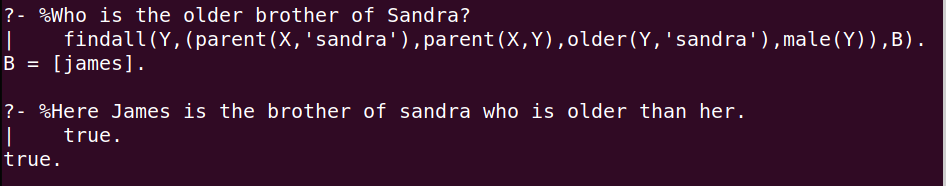
**8. Who is younger than Darren?**



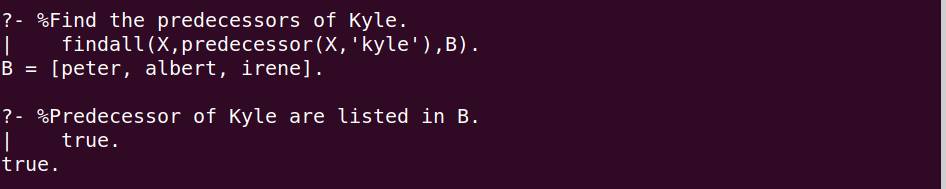
**9. List the siblings of Sandra.**



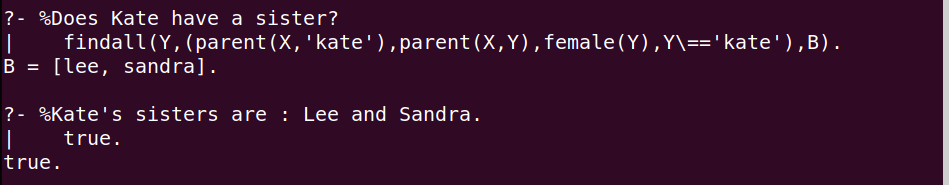
**10. Who is the older brother of Sandra?**



**11. Find the predecessors of Kyle.**



**12. Does Kate have a sister?**



**13. How many females and males are there in the knowledge base?**

