1. Use SWI Prolog to create the data representation and the rules to solve the "Hanoi Towers" problem. And run it!
   Create a Report that contains:

   - ***Introduction explaining the famous problem called "Hanoi Towers"***
   - The famous problem of the hanoi tower is that there are 3 poles and a certain number of disks reaching the final result of having 1 pole filled with the largest disk to the smallest. The rules are not having a larger disk above a smaller one, just moving on disk at a time.
   - ***Description on how you represent the elements needed to work on the problem in Prolog***
   - The elements will be the number of disks, the 3 separate towers
   - ***Explanation of the rules of this problem***
   - The rules are not having a larger disk above a smaller one, just moving on disk at a time.
   - ***Your code in prolog***
   - ```
     move(1,X,Y,_) :-
     ```
   - ```
       write('Move top disk from '), write(X), write(' to '), write(Y), nl.
     ```
   - ```
     move(N,X,Y,Z) :-
     ```
   - ```
       N>1,
     ```
   - ```
       M is N-1,
     ```
   - ```
       move(M,X,Z,Y),
     ```
   - ```
       move(1,X,Y,_),
     ```
   - ```
       move(M,Z,Y,X).
     ```
   - ***A link to your personal GitHub repository where the code is.***
   - https://github.com/Alepepi/HanoiTower.git
   - ***Result of the execution of your program (include a screenshot and an explanation of what happened and what the screenshot shows)***

```
?- move(5, s, t, a).
Move top disk from s to t
Move top disk from s to a
Move top disk from t to a
Move top disk from s to t
Move top disk from a to s
Move top disk from a to t
Move top disk from s to t
Move top disk from s to a
Move top disk from t to a
Move top disk from t to s
Move top disk from a to s
Move top disk from t to a
Move top disk from s to t
Move top disk from s to a
Move top disk from t to a
Move top disk from s to t
Move top disk from a to s
Move top disk from a to t
Move top disk from s to t
Move top disk from a to s
Move top disk from t to a
Move top disk from t to s
Move top disk from a to s
Move top disk from a to t
Move top disk from s to t
Move top disk from s to a
Move top disk from t to a
Move top disk from s to t
Move top disk from a to s
Move top disk from a to t
Move top disk from s to t
true
```

- The screenshot shows the movements of 5 disks and s being the source, t being the target and a being the auxiliary poles.
- ***Don't forget to add captions below each image or figure of your report.***
- ***Personal conclusions on your learning process and the obtained results***
- The lesson learned was making the process of making the fact move and putting the inputs that the function that will have
- ***References of used sources of information***
- ***TutorialsPoint. (2021, July 28). Prolog - Towers of Hanoi Problem. TutorialsPoint. Retrieved February 11, 2023, from https://www.tutorialspoint.com/prolog/prolog_towers_of_hanoi_problem.htm***

2. Check the rubric to make sure you have everything that is graded here.