The **Applications** of various Automata are given as follows:

**1.**[Finite Automata (FA)](https://www.geeksforgeeks.org/toc-finite-automata-introduction/)**–**

* For the designing of lexical analysis of a compiler.
* For recognizing the pattern using regular expressions.
* For the designing of the combination and sequential circuits using Mealy and Moore Machines.
* Used in text editors.
* For the implementation of spell checkers.

**2.**[Push Down Automata (PDA)](https://www.geeksforgeeks.org/theory-of-computation-pushdown-automata/)**–**

* For designing the parsing phase of a compiler (Syntax Analysis).
* For implementation of stack applications.
* For evaluating the arithmetic expressions.
* For solving the Tower of Hanoi Problem.

**3.**[Turing Machine (TM)](https://www.geeksforgeeks.org/turing-machine/)**–**

* For solving any recursively enumerable problem.
* For understanding complexity theory.
* For implementation of neural networks.
* For implementation of Robotics Applications.
* For implementation of artificial intelligence.