**Applications of stack**

1. used in "undo" mechanism in text editor.

2. Language processing:

* space for parameters and local variables is created internally using a stack.
* compiler's syntax check for matching braces is implemented by using stack.
* support for recursion.
* Expression evaluation like postfix or prefix in compilers.

3. Backtracking (game playing, finding paths, exhaustive searching)

4. Memory management, run-time environment for nested language features, etc.

**Applications of Queue**

1. When a resource is shared among multiple consumers. Examples include CPU scheduling, Disk Scheduling.
2. When data is transferred asynchronously (data not necessarily received at same rate as sent) between two processes. Examples include IO Buffers, pipes, file IO, etc.
3. used in graph traversal algorithms.
4. used in recognizing palindrome.
5. used in stimulations, etc.