**IMPLEMENTATION OF QUEUE USING STACK**

1. Initialize stack1 and stack2 making top1=top2=-1
2. To perform enqueue operation,

\*push all elements from stack1 to stack2

\*push the new elements to stack2

\*pop all elements from stack2 to stack1

**3.** Perform dequeue operation,

\* pop and return the element from stack1

APPLICATIONS OF STACKS:

Expression Evaluation. (Stack is used to evaluate prefix, postfix and infix expressions.)

Expression Conversion. (An expression can be represented in prefix, postfix or infix notation)

Syntax Parsing

Backtracking

Parenthesis Checking

Function Call.

APPLICATIONS OF QUEUES:

CPU scheduling

Disk Scheduling

Synchronization

 Handling of interrupts

Call Centre phone systems