# LAB TASK- 06

**Queues and Stack Applications**

1. Implement the following queue, based on the following functions:

**Bool** isEmpty();

**Bool** isFull();

**Bool** enQueue(int item);

**Bool** dequeue();

**Int** FrontValue();

**Void** showValue();

1. Write a program to convert an Infix expression **a+b\*(c+d/4)\*e/f**:-
2. Prefix
3. PostFix

Using the following template to implement the both conversion.

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| **string** **InfixToPostfix**(string expression); |
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| **int** **HasHigherPrecedence**(char operator1, char operator2); |
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| --- |
| **bool** **IsOperator**(char C); |
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|  |
|  |

**bool** **IsOperand**(char C);