Design a custom stack that supports push, pop, top, and retrieving the maximum element in constant time.

1. push(x) — Push element x onto stack.
2. pop() — Removes the element from the top of the stack.
3. top() — Get the top element.
4. getMax() — Retrieve the maximum element in the stack.

Methods pop, top and getMax operations will always be called on non-empty stacks.

**Marks distribution:**

1. Basic structure of classes [10]
2. Implementation of push() [7]
3. Implementation of pop() [7]
4. Implementation of getMax() [10]
5. Creation/Handling of custom exceptions [6]