EXERCISE-8

(1.) Design a Java interface for ADT Stack. Implement this interface using array. Provide necessary exception handling in both the implementations.

(2.) The username and password must be validated. The username and password must be present in a separate file and input should be got from the user and validation must be done by reading it. Upon successful validation, the user must be able to write the contents received through the commandline arguments into a new file.

Note- Please submit the assignments in PDF format on LMS SNU. Include your name and registration number in the top right corner of the page. Name the folder using the format: last two digits of your registration number_your name. For example, if your registration number is 23011103022 and your name is Abhishek Kumar, your folder name would be 22_Abhishek_Kumar. Your assignment should include the question, algorithm, program, and output. Ensure your code is well-commented and follows proper naming conventions. Include a brief report explaining the functionality of your code and any challenges faced.