**Testing Strategy EX02**

**Program Goal:**

*The goal is to check that the user input fulfills all the password validation conditions of password validation python program.*

**Testing Strategy:**

*The program is constructed to run in step-by-step process which are:*

* *Alerting the user about the password input conditions along with the prompt to enter the password by user to be validated.*
* *After user input, the program will run a validation process to verify whether the user input meets the password requirements or not.*
* *If the password length is less than 5 characters, then the program will prompt an error message stating the minimum length requirement & user input will be prompted to re-enter the password.*
* *If the password length is more than 12 characters, then the program will prompt an error message stating the maximum length requirement & user input will be prompted to re-enter the password.*
* *After the verification of character length requirement is fulfilled, the program will verify the user input password for the combination requirement.*
* *If the user input password does not contain the combination of alphabetical (uppercase & lowercase) and numerical characters, then the program will prompt user with an error message stating:*

*'ERROR', Your password must contain a numerical character.*

*'ERROR', Your password must contain an uppercase alphabetic character.*

*'ERROR', Your password must contain a lowercase alphabetic character.*

* *When all the conditions of password validation are fulfilled by the user input password, then the program will print a statement stating that “your password has been validated”.*
* *After the user input password has been validated, the program will prompt the user with a choice message stating “Do you want to continue? (enter ‘done’ to stop or ‘yes’ to continue the password validation program run cycle.*
* *If the user input is ‘yes’, then the complete password validation program cycle will run all over again and if the user input is ‘done’, then the password validation program will stop the run cycle and print the closing statement stating “Thank you for using this tool”.*

*User input testing:*

*Input: ashu*

*Output: Password must contain minimum 5 characters.*

*Input: Ashutosh12345*

*Output: Password must not contain more than 12 characters.*

*Input: Ashutosh*

*Output: 'ERROR', Your password must contain a numerical character.*

*Input: ashu123*

*Output: 'ERROR', Your password must contain an uppercase alphabetical character.*

*Input: ASHU123*

*Output: 'ERROR', Your password must contain a lowercase alphabetic character.*

*Input: Ashu1234*

*Output: Your password has been validated.*

*Input prompt: Do you want to continue? (enter 'done' to stop or 'yes' to continue):*

*If input: yes*

*Output: Please enter your password for validation:*

*else input: done*

*Output: Thank you for using this tool!*

*Program ends the process.*