**Question 1:**

1. Write a class which holds username and password in a dictionary and supports functions for the following:
2. Add a new user
3. Modify the existing password
4. Check for valid password – It should contain at-least one digit, one uppercase character, one special symbol from the following symbols (#, $, @, %, !, ^, &, \*)and the length of the password is greater than 10.
5. FindPassword for a user

Now use try and catch blocks for the function FindPassword. Check for the exception KeyError when the particular user details are not available

1. Modify the function FindPassword to raise error and define the handler in the function call to provide suitable messages
2. Define user-defined exception for the function valid password for providing useful messages if the password is invalid.

Use a handler in the main program to validate the password and print messages.

**Question 2:**

Create a class smart List which support these methods or operations

* Push - Push a number on top of the stack
* Pop - Pop the number off the top of the stack
* Size - how many numbers are on your stack
* Remove Greater - remove all integers off the stack greater in value than the given number
* Display Stack - shows the stack order of the list (the order they were pushed from recent to oldest)
* Display Ordered - shows the integers sorted from lowest to highest.

Create user-defined exception classes for testing the underflow and overflow conditions

Underflow – when you delete an element from list whose size is zero

Overflow – Insert element in a list when size exceeds 100