

PYTHON TECHNICAL TASKS:

!! Important using only standard libraries of python

Problem 1

This is a CLI application where you can build a program that intakes some words from the user and then generates a random password using those words.

This password must be strong (min. length 8 char and must contain all of the symbols)

Problem 2

Implement a program that will launch a specified process and periodically collect the following data:

- CPU usage(%);
- Memory usage (bytes);
- Number of open handles (for Windows OS) or file descriptors (for Linux OS).

Data collection should be performed all the time the process is running. Path to the executable file for the process and time interval between data collection iterations should be provided by user. Collected data should be stored on the disk. Format of stored data should support automated parsing to potentially allow, for example, csv, json.

Problem 3

This is a command-line application where you will design a contact book application that users can use to save and find contact details.

Write a mini program which is called a contact book to save contact details, including name, address, phone number, and even email address.

The application should also allow users to update contact information, delete contacts, and list saved contacts.

The SQLite database is the ideal platform for saving contacts.