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\* Describe Password Management using free online tools.

The Best and free and open source Password Management Software :

(1) KeePass -

- ① Includes highly secure password edit controls.
- ① One master password can decrypt the entire database.
- ① Includes strong random password generator.
- ① Allows to write plugins providing additional functionality.

It is a free and open source password management software which helps us in storing passwords in a single database, accessible using a master password.

(2) Passbolt : It is one of the best open source management software which is self-hosted, highly scalable and openPGP based. It has been observed as one of the best password management software built for teams and devops.

- ① Allows passwords sharing.
- ① Facilitates advanced search and filters.
- ① Quick access to browser integration.
- ① Provides free updates.
- ① Provides community support.



(3) Password Safe: It is a simple and highly secure password management software which works using MS windows platform, with the help of this software, the users can keep their passwords stored in an encrypted format.

- ① Ability to back the entire history of the passwords created and modified.
- ② Supports importing file formats like TXT & CSV.
- ③ Text notes can be added including the password details.
- ④ Includes random password generator that creates strong and ambiguous passwords impossible to guess.

(4) Enpass: It is a free and open source management software which is compatible with multiple devices like - desktop, mobile, tablet etc.

- ① Maximum security is ensured as Enpass uses open source and peer reviewed.
- ② Its built-in password generator can create strong and unique passwords.
- ③ Scans our database of passwords and notifies us for weak and duplicate passwords.
- ④ Can sync our data with cloud storage accounts like dropbox, icloud, Google drive, etc.
- ⑤ Stores passwords which can be retrieved using a single master password.

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(5) **Proton** : It is a self-hosted password manager meant for teams. It allows multi-level encryption, including client-side encryption layer, end-to-end encryption for password sharing, SSL, and storage encryption.

- ① Allows passwords syncing across all devices.
- ② Enables multi-factor authentication.
- ③ Allows encrypting and decrypting PGP messages.
- ④ Provides password strength report.
- ⑤ Supports multiple browsers and languages.
- ⑥ Allows access control given to the team members.
- ⑦ Enables local and cloud storage both.