

## Password Generator

**Aim:** The idea was to generate a list of passwords required by the users from a root word and a dynamically generated key so that its easier for them to remember.

**Problem Definition:** Using the inputs sent by the users and generating the list of passwords required by the users and also providing an option to generate an external file for storing it permanently.

**Inputs:** Name of the user, no. of passwords required, root word.

### Steps:

1. Take all the inputs from the user.
2. **Generate keys dynamically.**
3. **Apply shift cipher to the root word with different keys.**
4. Display all the passwords with their respective keys.
5. Generate file.

### Observations:

- Keys generated for every passwords are unique
- As all passwords are related to the root word, hence memorizing them is easy.
- As external file can be generated user can use it anywhere at any time.

**Results:** Hence, this application provides the user to create passwords for different websites with ease of use and can be stored in external file.