Task: Password Generation

Description:

The user is prompted to input the desired length of the password. This length will be used to calculate the distribution of different types of characters in the password.

Steps to Follow:

- 1. User Input: Get the desired password length of 10.
- Character Distribution: Split length into 50% alphabetical, 30% numeric, and 20% special.
- 3. Alphabetical Characters: Add a mix of uppercase and lowercase letters (e.g., 'a', 'B', 'c', 'D', 'e').
- 4. Numeric Characters: Add digits 0-9.
- 5. Special Characters: Add symbols like @, #, \$, %, &, *.
- 6. Shuffle: Randomize character order (e.g., a7#Bc2@D4).
- 7. Convert to String: Merge characters into a single string.
- 8. Display: Show the final password to the user.

Example:

"a7#Bc2@D4".