START

DEFINE CLASS LockForge

   METHOD __init__(length, useUpper, useDigits, useSymbols)

     SET self.length = length

     SET self.useUpper = useUpper

     SET self.useDigits = useDigits

     SET self.useSymbols = useSymbols

   METHOD generatePassword()

     SET lowercase characters

     SET uppercase IF useUpper is True

     SET digits IF useDigits is True

     SET symbols IF useSymbols is True

     COMBINE all selected character types

     IF no characters selected THEN

       RAISE error "Select at least one character type"

     INITIALIZE password list

     IF useUpper is True THEN

       ADD one random uppercase to password

     IF useDigits is True THEN

       ADD one random digit to password

     IF useSymbols is True THEN

       ADD one random symbol to password

     ALWAYS add one random lowercase to password

CALCULATE remaining characters needed

ADD random characters from combined pool to password

SHUFFLE password list

RETURN password as string

INITIALIZE savedPasswords as empty list

DEFINE FUNCTION savePassword()

GET password from resultEntry

GET description from descEntry

IF password is empty THEN

SHOW warning "Please generate a password first"

RETURN

IF description is empty THEN

SHOW warning "Please enter a description for the password"

RETURN

APPEND dictionary with 'description' and 'password' to savedPasswords

SHOW info "Password saved"

CLEAR descEntry

DEFINE FUNCTION copyToClipboard(password)

CLEAR clipboard

APPEND password to clipboard

SHOW info "Password copied to clipboard"

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DEFINE FUNCTION deletePassword(index, window)

    DELETE password at index from savedPasswords

    DESTROY window

    CALL viewSaved() to refresh display


DEFINE FUNCTION viewSaved()

    IF savedPasswords is empty THEN

        SHOW info "No passwords saved yet"

        RETURN


    CREATE new window

    SET window properties

    ADD label and frame


    FOR each saved password (with index) DO

        DISPLAY description

        ADD button to copy password

        ADD button to delete password


DEFINE FUNCTION generate()

    TRY

        GET length from lengthEntry

        GET useUpper, useDigits, useSymbols from checkboxes

        CREATE LockForge object with selected options

        CALL generatePassword()

        CLEAR resultEntry

        DISPLAY password in resultEntry

    CATCH ValueError AS e

        SHOW error message
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CREATE main window

SET title, size, and disable resizing

ADD label "LockForge"

ADD entry for length with default value

ADD checkboxes for options: uppercase, digits, symbols

ADD button "Generate Password"

ADD entry resultEntry to show generated password

ADD label and entry for description

ADD button "Save Password"

ADD button "View Saved Passwords"

START main event loop

END