

□ The application has four functions: setup the encryption key, encryption, decryption, cryptanalysis. □ Setup the encryption key: allow a user to determine the dimension of the matrix, and to generate the key either randomly, or manually (entered by the user). □ The default space for plaintext/ciphertext/key is the set of small alphabet 'a' .. 'z', but the application allows the user to extend it to include: capital letter, digit 0..9, or some special characters such as space .