Assignment 4

Write a program to perform key generation/encryption/decryption functions according to S-DES algorithm. The program must work for any 10-digit key and 8-digit plaintext/ciphertext block. All three functions must be visible on the screen allowing users to make selection. For each particular item, such as permutation, expanded permutation, boolean operation, etc. display input value, output value and related label (item name) on the screen.

You may receive up to 5 points depending on quality of your program.