public class CryptoManager {

// Pseudocode in Red Text

public static boolean main(String[] args) {

return false;

//\* In this program the Bellaso Cipher is used to encrypt a string in this approach.

// Which eventually returns.

// programmed by Angel Agyei

private static final char ***LOWER\_BOUND***=' ' ;

private static final char ***UPPER\_BOUND***='\_';

private static final int ***RANGE***=***UPPER\_BOUND***-***LOWER\_BOUND***+1;

/\*\*This should determine if the string is within the allowable bounds of ASCII codes

\* according to the LOWER\_BOUND and UPPER\_BOUND characters\*\*/

public static boolean stringInBounds(String plainText)

{

for(int i=0;i<plainText.length();i++)

{

//This should Check if character falls in the bound or not

if(!(plainText.charAt(i)>=***LOWER\_BOUND*** && plainText.charAt(i) <=***UPPER\_BOUND***))

return false;

}

return true;

}

/\*\*Encrypts string according to caesar cipher. \*\*/

public static String encryptCaesar(String plainText, int key)

{

String encryptedStr="";

for (int i=0; i<plainText.length(); i++)

{

if (Character.*isUpperCase*(plainText.charAt(i)))

{

char ch = (char)(((int)plainText.charAt(i) +

key - 65) % 26 + 65);

encryptedStr+=ch;

}

else

{

char ch = (char)(((int)plainText.charAt(i) +

key - 97) % 26 + 97);

encryptedStr+=ch;

}

}

return encryptedStr;

}

/\*\*Encrypts a string according to the Bellaso Cipher \*\*/

public static String encryptBellaso(String plainText, String bellasoStr)

{

String encryptedStr = "";

for (int i = 0, j = 0; i < plainText.length(); i++)

{

char c = plainText.charAt(i);

if (c < 'A' || c > 'Z')

continue;

encryptedStr += (char) ((c + bellasoStr.charAt(j) - 2 \* 'A') % 26 + 'A');

j = ++j % bellasoStr.length();

}

return encryptedStr;

}

/\*\* Decrypts a string according to Caesar cipher\*\*/

public static String decryptCaesar(String encryptedText, int key)

{

String decryptedMessage = "";

for(int i = 0; i < encryptedText.length(); ++i){

char ch = encryptedText.charAt(i);

if(ch >= 'a' && ch <= 'z'){

ch = (char)(ch - key);

if(ch < 'a'){

ch = (char)(ch + 'z' - 'a' + 1);

}

decryptedMessage += ch;

}

else if(ch >= 'A' && ch <= 'Z'){

ch = (char)(ch - key);

if(ch < 'A'){

ch = (char)(ch + 'Z' - 'A' + 1);

}

decryptedMessage += ch;

}

else {

decryptedMessage += ch;

}

}

return decryptedMessage;

}

public static void main1(String args[])

{

String test="TEST";

System.***out***.println(*stringInBounds*(test));

test="HAVEANICEDAY";

String encryptedStr=*encryptCaesar*(test, 4);

System.***out***.println("Encrypted String:"+encryptedStr);

System.***out***.println("Decrypted String:"+*decryptCaesar*(encryptedStr, 4));

System.***out***.println(*encryptBellaso*(test, "BELLASOCIPHER"));

}// end of class

}// end of main