***ASSIGNMENT-3***

***QUESTION NO.:-2***

***ALGORITHM:-***

*ENCRYPT (m,n)*

Statement: - This function take a massage string ‘m’ and an encrypted value ‘n’ as arguments.

Step 1: i←load the starting index of for loop which is 0.

Step 2: Repeat step 3 to 9 while (m[i]≠NULL) do,

Step 3: If (m[i]≥’a’ and m[i]≤’z’) then go to step 4 to 6,

Otherwise go to step 7

Step 4: m[i]←m[i]-32

Step 5: m[i]←((m[i]+n+65)%26)+65 //encrypt the massage

Step 6: m[i]←m[i]+32

Step 7: If (m[i]≥’A’ and m[i]≤’Z’) then go to step 8,

Otherwise go to step 9

Step 8: m[i]←((m[i]+n+65)%26)+65 //encrypt the massage

Step 9: m[i]←m[i]

Step 10: END

*DECRYPT (m,n)*

Statement: - This function take a massage string ‘m’ and a decrypted value ‘n’ as arguments.

Step 1: i← load the starting index of for loop which is 0.

Step 2: Repeat step 3 to 9 while (m[i]≠NULL) do,

Step 3: If (m[i]≥’a’ and m[i]≤’z’) then go to step 4 to 6,

Otherwise go to step 7

Step 4: m[i]←m[i]-32

Step 5: m[i]←((m[i]-n-65)%26)+65 //decrypt the massage

Step 6: m[i]←m[i]+32

Step 7: If (m[i]≥’A’ and m[i]≤’Z’) then go to step 8,

Otherwise go to step 9

Step 8: m[i]←((m[i]-n-65)%26)+65 //decrypt the massage

Step 9: m[i]←m[i]

Step 10: END

*Main ( )*

Step 1: Read a massage string in a string ‘m’.

Step 2: Read a value in ‘n’ for encryption or decryption.

Step 3: ENCRYPT(m,n) //call the ENCRYPT function

Step 4: Display the encrypted massage ‘m’ as a string.

Step 5: DECRYPT(m,n) //call the DECRYPT function

Step 6: Display the decrypted massage ‘m’ as a string.

Step 7: END