**LAB 03**

**ENCRYPT:**

var listOfArrays = [

['q','w','e','r','t','y','u','i','o','p','a','s','d','f','g'

,'h','j','k','l','z','x','c','v','b','n','m'],

['z','x','c','v','b','n','m','a','s','d','f','g','h','j','k','l'

,'q','w','e','r','t','y','u','i','o','p'],

['a','s','d','f','g','h','j','k','l','z','x','c','v','b','n','m',

'q','w','e','r','t','y','u','i','o','p']

]

var alphabets = 'abcdefghijklmnopqrstuvwxyz'

var text = "attackatdawn".toLowerCase()

var cypherText = ''

for(let i=0; i<text.length;i++){

  if(i>=0 && i<=2){

    let tempArray = listOfArrays[i]

    let indexOfChar = text.indexOf(text.charAt(i))

    cypherText = cypherText + tempArray[indexOfChar]

  }

  else{

    let j = i%3

    let tempArray = listOfArrays[j]

    let indexOfChar = text.indexOf(text.charAt(i))

    cypherText = cypherText + tempArray[indexOfChar]

  }

}

console.log(cypherText)

**OUTPUT:**



**DECRYPT:**

var listOfArrays = [

['q','w','e','r','t','y','u','i','o','p','a','s','d','f','g'

,'h','j','k','l','z','x','c','v','b','n','m'],

['z','x','c','v','b','n','m','a','s','d','f','g','h','j','k','l'

,'q','w','e','r','t','y','u','i','o','p'],

['a','s','d','f','g','h','j','k','l','z','x','c','v','b','n','m',

'q','w','e','r','t','y','u','i','o','p']

]

var alphabets = 'abcdefghijklmnopqrstuvwxyz'

var text = "attackatdawn".toLowerCase()

var cypherText = ''

var decryptText = ''

for(let i=0; i<text.length;i++){

  if(i>=0 && i<=2){

    let tempArray = listOfArrays[i]

    let indexOfChar = text.indexOf(text.charAt(i))

    cypherText = cypherText + tempArray[indexOfChar]

  }

  else{

    let j = i%3

    let tempArray = listOfArrays[j]

    let indexOfChar = text.indexOf(text.charAt(i))

    cypherText = cypherText + tempArray[indexOfChar]

  }

}

console.log(cypherText)

for(let i=0; i<cypherText.length;i++){

  if(i>=0 && i<=2){

    let tempArray = listOfArrays[i]

    let indexOfChar = tempArray.indexOf(cypherText.charAt(i))

    decryptText = decryptText + text.charAt(indexOfChar)

  }

  else{

    let j = i%3

    let tempArray = listOfArrays[j]

    let indexOfChar = tempArray.indexOf(cypherText.charAt(i))

    decryptText = decryptText + text.charAt(indexOfChar)

  }

}

console.log(decryptText)

**OUTPUT:**

