**LAB 05**

**ENCRYPT:**

function railfenceEncrypt2(string,keynum)

{

ptext = string.toUpperCase();

key = keynum;

mainArray = Array(key);

for(i=0; i<key; i++)

{

mainArray[i] = Array(ptext.length);

for (s=0; s<ptext.length; s++)

{

mainArray[i][s] = "";

}

}

j = 0;

r = 0;

for (i=0; i<ptext.length; i++)

{

p = ptext.substr(i,1);

mainArray[j][i] = p;

if (r == 0)

{

j = j + 1;

}

else if (r == 1)

{

j = j - 1;

}

if (j == key - 1)

{

r = 1;

}

else if (j == 0)

{

r = 0;

}

}

for (i=0; i<mainArray.length; i++)

{

mainArray[i] = mainArray[i].join("");

}

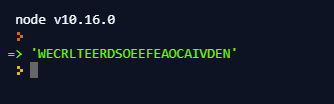
ctext = mainArray.join("");

return ctext;

}

railfenceEncrypt2("wearediscoveredfleeatonce",3);

**OUTPUT:**



**DECRYPT:**

function railfenceDecrypt(string,keynum) {

ctext = string.toUpperCase();

key = keynum;

mainArray = Array(key);

for (i = 0; i < key; i++) {

mainArray[i] = Array(ctext.length);

for (s = 0; s < ctext.length; s++) {

mainArray[i][s] = "";

}

}

q = 0;

for (t = 0; t < mainArray.length; t++) {

j = 0;

r = 0;

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

if (j == t) {

c = ctext.substr(q, 1);

mainArray[j][i] = c;

q = q + 1;

}

if (r == 0) {

j = j + 1;

}

else if (r == 1) {

j = j - 1;

}

if (j == key - 1) {

r = 1;

}

else if (j == 0) {

r = 0;

}

}

}

j = 0;

r = 0;

ptext = "";

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

ptext = ptext + mainArray[j][i];

if (r == 0) {

j = j + 1;

}

else if (r == 1) {

j = j - 1;

}

if (j == key - 1) {

r = 1;

}

else if (j == 0) {

r = 0;

}

}

ptext = ptext.toLowerCase();

return ptext;

}

railfenceDecrypt("WECRLTEERDSOEEFEAOCAIVDEN",3);

**OUTPUT:**

