Assignment 0

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Screen Shots

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		Assignmnet 0		
		name: Kavyansh Gangwar		
		roll no.: 18075027		
		CSE B.Tech.		
If you write	program wi	ill automatically convert it to cypher text and if you write anything into cypher text input the ill automatically convert it into plain text. (note: please use ctrl+v to paste)		
	plain text	cypher text		
	abc	zyx		

Assignmnet 0

you write anything in the plain text input the program will automatically convert it to cypher text and if you write anything into cypher text input the program will automatically convert it into plain text.							
	plain text		<pre>(note: please use ctrl+v to paste)</pre>				
hello world			svool dliow				

Source Code

assignment.html ->

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    \leftarrow! — the title of the page \rightarrow
    <title>assignment</title>
    \leftarrow! importing the stylesheet \rightarrow
    <link rel="stylesheet" href="assignment.css">
  </head>
  <body>
    \epsilon!— a container for marign and center allign the text \longrightarrow
    <div class="container center">
      <h1>Assignment 0</h1>
      name: Kavyansh Gangwar
      roll no.: 18075027
      CSE B.Tech.
      \leftarrow! description of how the page works \rightarrow
      If you write anything in the plain text input the program
will automatically convert it to cypher text and if you write anything
into cypher text input the program will automatically convert it into
plain text.
        <br><b>(note: please use ctrl+v to paste)
      <div class="row">
        \leftarrow! — area plain text \rightarrow
        <div class="col">
          plain text
          <input type="text" id="cyphertext"name="" value=""</pre>
placeholder="plain text">
        </div>
        \leftarrow! area for cypher text \rightarrow
        <div class="col">
          cypher text
```

```
assignment.css ->
this file contains the style properties of the html file
/*
changes background color, font color, font size, font type for whole
page
*/
body{
  background-color: #C7F9CC;
  color: #22577A;
 font-family: monospace;
 font-size: 1.2em;
}
/* css style for input elements*/
input{
 height: 2em;
 width: 30em;
 border-radius: 0.3em;
 color: inherit;
 font-weight: bold;
}
/* css style for container class*/
.container{
 margin-left: 5em;
 margin-right: 5em;
 margin-top: auto;
 margin-bottom: auto;
}
/* css style for center class to allign the text center*/
.center{
 text-align: center;
}
```

```
/* css style for row class*/
.row{
   column-count: 2;
   column-gap: 2em;
   column-width: 40em;
   column-span: 40em;
}

/* css style for col class*/
.col{
   column-width: 40em;
   font-weight: bold;
}
```

assignment.js ->

```
// area from which i have to convert to cypher text
var cyphertext = document.getElementById('cyphertext');
// area from which i have to convert to plain text
var plaintext = document.getElementById('plaintext');
// cypher text variable
var cyStr = "";
// plain text variable
var plStr = "";
// function to convert cypher text to plain text
const cypherToPlain = function() {
  // take input of user
  cyStr = cyphertext.value;
  // intialize the palin text
  plStr = "";
  // for every character in input use the algo for conversion
  for(var i=0;i<cyStr.length;i++){</pre>
    // gets the ascii value of the character of string at index i
    var c = cyStr.charCodeAt(i);
    if(c>96 & c<123){
      c = 97:
      c = 25-c;
      c+=97;
    }else if(c>64 & c<91){
      c = 65;
      c = 25-c;
      c+=65;
    }
    // converts ascii value to character
    plStr+=String.fromCharCode(c);
  // display the value obtained;
  plaintext.value = plStr;
}
// function to convert plain text to cypher text
const plainToCypher = function(){
 // take input of user
  plStr = plaintext.value;
```

```
// intialize the cypher text
  cyStr = "";
  // for every character in input use the algo for conversion
  for(var i=0;i<plStr.length;i++){</pre>
    // gets the ascii value of the character of string at index i
    var c = plStr.charCodeAt(i);
    if(c>96 & c<123){
      c = 97;
      c = 25-c;
      c+=97;
    }else if(c>64 & c<91){
      c -= 65;
      c = 25-c;
      c+=65;
    }
    // converts ascii value to character
    cyStr+=String.fromCharCode(c);
  }
  // display the value obtained;
  cyphertext.value = cyStr;
}
// adds an event listener to for conversion
cyphertext.addEventListener('keyup',cypherToPlain);
// adds an event listener to for conversion
plaintext.addEventListener('keyup',plainToCypher);
```

Github Link

The code can be found at

https://github.com/kavyanshgangwar/networksecurity-assignment0