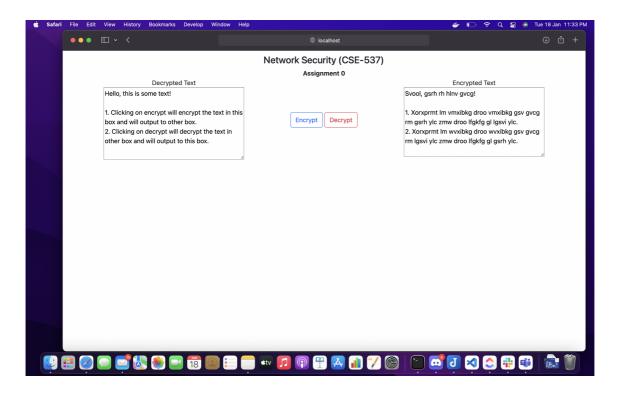
## **Network Security (Assignment 0)**

Submitted by Nishant Mittal, CSE IDD Part IV. Roll No. 18074013.

## Screenshot



## Code

```
class AtBashCipher {
    cipherMap = {};
    buildCipherMapForRange(startChar, endChar) {
        const startCode = startChar.charCodeAt(0);
        const endCode = endChar.charCodeAt(0);
        for (let i = 0; i < (endCode-startCode+1); i++) {</pre>
            this.cipherMap[String.fromCharCode(startCode + i)] =
String.fromCharCode(endCode - i);
        }
    }
    buildCipherMap() {
        this.buildCipherMapForRange('a', 'z');
        this.buildCipherMapForRange('A', 'Z');
    }
    applyCipher(text) {
        let newText = "";
```

```
for (const c of text) {
            newText += this.cipherMap[c] === undefined ? c : this.cipherMap[c];
        }
        return newText;
   }
}
const decrypted_text_id = "decrypted_text";
const encrypted_text_id = "encrypted_text";
const cipher = new AtBashCipher();
cipher.buildCipherMap();
function performOperation(operation) {
   if (operation === 'encrypt') {
        const text = document.getElementById(decrypted_text_id).value;
        document.getElementById(encrypted_text_id).value = cipher.applyCipher(text);
   } else {
        const text = document.getElementById(encrypted_text_id).value;
        document.getElementById(decrypted_text_id).value = cipher.applyCipher(text);
    }
}
```

This is the javascript code that runs when user is using the webpage. When user clicks on Encrypt , performOperation function is called with encrypt argument and similar thing happens when user clicks Decrypt .

The cipher implementation is present in AtBashCipher class.

## GitHub Repo

GitHub Repository Link - <a href="https://github.com/nishantwrp/CSE-537-Network-Security/tree/main/encipher-decipher">https://github.com/nishantwrp/CSE-537-Network-Security/tree/main/encipher-decipher</a>