**Day 4**

**Node JS security**

**Node JS provided external modules is bcryptjs : This modules help to do hashing password.**

**Password encryption and description using bcrptjs module.**

npm install bcryptjs

crypto modules : This is core modules part of node js which help us to do different type of crypto functionality like security features such encryption, decryption, hashing, digital signature, generate public and private to do encryption and decryption etc.

using crypto module we will check all algorithm support.

let crypto = require("crypto");

//console.log(crypto.getHashes())

//console.log(crypto.getCiphers())

for(let algorithm of crypto.getCiphers()){

    console.log(algorithm)

}

console.log("---------------------")

for(let algorithm of crypto.getHashes()){

    console.log(algorithm)

}

Using above example we can see all supporting algorithms

While using these algorithms we need to give the below format

1. Hex
2. Base64
3. Utf-8/utf-16
4. Base64URL

Etc

While dealing with any format we use one of the pre defined ie Buffer.

SHA-256 (Secure Hash Algorithm) is widely used cryptographic hash function that produce (32 bytes) hash values.