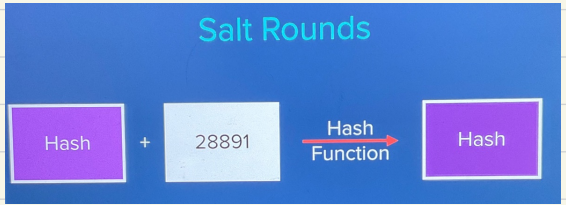
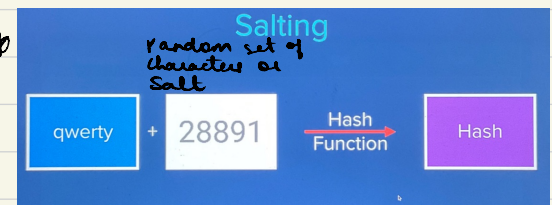
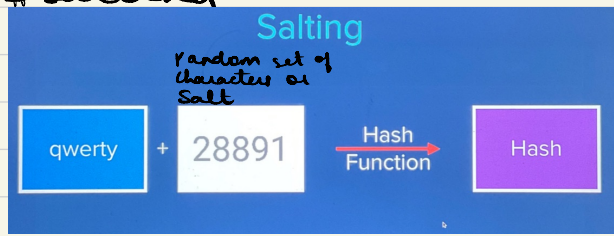


Salting



Username	Password ⇒ Salt ⇒ password	Hash x 10
angela@gmail.com	hjs95dfHAs72Gv3o	1cb8d9a17982c7e25e6d4ae868356bb0
john@gmail.com	73gHJTusdf92bsdf	e826ce28c7c7862517872dbb15336327
tony@gmail.com	sdf8sdfjhsdfblUHF	47075ccd564621206c659590ee05e491
emily@gmail.com	74hgjJHVBSfvasd	dbdfca8c97a28066bcde4cc1b38d51aa

* node version should be stable version and not too old or not too new so to get back to stable version ⇒ install nvm then restart terminal ⇒ nvm install v10.15.0

We do the above to use bcrypt as it is version Sensitive

✶ const bcrypt = require("bcrypt");
const saltRounds = 10;

```
bcrypt.hash(myPlaintextPassword, saltRounds, function(err, hash) {  
  // Store hash in your password DB.  
});
```

✶

```
app.post("/register", function(req, res){  
  bcrypt.hash(req.body.password, saltRounds, function(err, hash) {  
    const newUser = new User({  
      email: req.body.username,  
      password: hash  
    });  
    newUser.save(function(err){  
      if (err) {  
        console.log(err);  
      } else {  
        res.render("secrets");  
      }  
    });  
  });  
});
```

Final hashed Password

✶ To decrypt

```
// Load hash from your password DB.  
bcrypt.compare(myPlaintextPassword, hash, function(err, res) {  
  // res == true  
});
```

✶

```
app.post("/login", function(req, res){  
  const username = req.body.username;  
  const password = req.body.password;  
  
  User.findOne({email: username}, function(err, foundUser){  
    if (err) {  
      console.log(err);  
    } else {  
      if (foundUser) {  
        bcrypt.compare(password, foundUser.password, function(err, result) {  
          if (result === true) {  
            res.render("secrets");  
          }  
        });  
      }  
    }  
  });  
});
```

↳ this is also res but not to be confused we name it result
So if we get response we go further and render secrets file