Project 2: Password Assistant

By: Jesus De Leon

Github Link: https://github.com/JDeLeon05-Project2.git Website Link: https://jdeleon05.github.io/JDeLeon05-Project2/

checkPassword()

```
/*program checks if password contains a certain type of char
 * @param characters, the character type the function checks
 * returns boolean, if the character of that type was found*
function checkPassword(characters) {
    //goes through all characters in array
    for(let i = 0; i < characters.length; i++){</pre>
        //stops looking and returns true if the character is
       if(password.value.includes(characters[i])){
           return true;
    return false;
}//end checkPassword
```

- Goes through elements/characters of an array
- checks if the password has element until it finds one or it goes through all elements.

checkStrength(): Part 1

```
function checkStrength(){
   checkCount = 0:
   lengthCheck.textContent = "Your password is not at least 8 characters long";
   upperCheck.textContent = "Your password does not contain an uppercase letter";
   lowerCheck.textContent = "Your password does not contain a lowercase letter";
   numCheck.textContent = "Your password does not contain a number";
   specCheck.textContent = "Your password does not contain a special character";
   if(password.value.length >= 8){
        lengthCheck.textContent = "Your password is at least 8 characters long";
   if(checkPassword(upperLetters)){
       upperCheck.textContent = "Your password does contain an uppercase letter":
       checkCount++:
   if(checkPassword(lowerLetters) == true){
       lowerCheck.textContent = "Your password does contain a lowercase letter":
       checkCount++;
   if(checkPassword(numbers) == true){
       numCheck.textContent = "Your password does contain an number";
       checkCount++;
   if(checkPassword(specChars) == true){
        specCheck.textContent = "Your password does contain a special character";
```

- checkCount represent strength of password from 0-5
- Uses variables that represent elements in html file
- Sets requirements to "not met" by default to avoid if-else statements
- Checks 5 requirements:
 - Changes them to "met" if the password meets them and increments checkCount

checkStrength(): Part 2

```
program intorms user now strong their password is, text color is changed to reflect strength
itch(checkCount){
 case 1:
     results.textContent = "Your password has a strength value of 1 or less, how have you not been hacked?!
     results.style.color = "red";
 case 2:
     results.textContent = "Your password has a strength value of 2, I would really recommend changing it";
     results.style.color = "salmon";
 case 3:
     results.textContent = "Your password has a strength value of 3, I would recommend making it stronger";
     results.style.color = "orange";
 case 4:
     results.textContent = "Your password has a strength value of 4, its pretty strong";
     results.style.color = "green";
 case 5:
     results.textContent = "Your password has a strength value of 5, it is very strong. Congradulations!!";
      results.style.color = "orchid";
```

- Message transmitted to tag, telling the user how strong their password is
- Score based on requirements met
- Message font color is based on score

Video:

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generatePassword() & changeLength()

```
passwordDisplay.value = "";
for(let i = 0; i < parseInt(passwordLength.textContent); i++){</pre>
    switch(Math.floor(Math.random() * 4)){
             passwordDisplay.value += upperLetters[Math.floor(Math.random() * upperLetters.length)];
             passwordDisplay.value += lowerLetters[Math.floor(Math.random() * lowerLetters.length)];
             passwordDisplay.value += numbers[Math.floor(Math.random() * numbers.length)];
             passwordDisplay.value += specChars[Math.floor(Math.random() * specChars.length)];
value += parseInt(passwordLength.textContent);
    passwordLength.textContent = value;
```

- passwordDisplay represents <textarea> for generated password
- Random character picked from 4 different character types
- Repeats until password is requested length

- Value set to 1 if "^" button is pressed
- Value set to -1 if "v" button is pressed
- Current password length added to value
- Password length is updated only if value > 0

Video

