R & D on Local Storage and Session Storage

Local Storage:

Local Storage is a web storage which are not sent to server with each request. This data survives a full page refresh and even a full browser restart.

Like: localStorage.SetItem("name". "riya")

Javascript code:

```
let key = prompt("Enter key you want to set")

let value = prompt("Enter value you want to set")

localStorage.setItem(key, value)

console.log(`The value at ${key} is ${localStorage.getItem(key)}`)

if (key == "red" || key == "blue") {

localStorage.removeItem(key)

}

if (key == 0) {

localStorage.clear()

}
```

These are the methods provided by the local storage:

1.setItem(Key,Item)- store the key value pair

2.getItem(Key,Item)- get the key value pair

3.removeItem(key)- remove the key with its value

4.clear()- delete everything

5.key(index)- get the key on a given position

6.length- the no. of stored items

We can get & set values like an object

```
LocalStorage.one=1

Alert(localStorage.one)

Delete localStorage.one
```

Important things to remember:

1.Both Keys and Value must be strings.

2.We can use the two Json methods to store object in local Storage.

Json.stringify(object) – converts objects to JSON strings

Json.parse(object) – converts strings to objects

(must be a valid JSON)

Session Storage:

It is used less often than the local storage. Properties & methods are same as local storage. But:

 1.The Session storage exists only within the current browser tab. Another tab with the same page will have a different storage.

2. The data survives on page refresh, but not closing, opening another tab.

Storage Event:

When the data gets updated in the local storage or session storage,storage event triggers with these properties.

1.Key – the key

2. Old value – previous value

3. New value – new value

4. URL – page URL

5. Storage Area – local or storage session

Example:
```
windows.onstoarge (e) => {

   Alert("changed")

   Console.log(e)

   }
```

Console:
```
localStorage.SetItem("name", "riya")

localStorage.SetItem("name", "riya1")
```