

Web and UI Design

CW_KRSIT_H

(DSGN H4R14)

Lab Eight

Create a HTML file called index.html and an external javascript file called src.js , all scripting should be contained in src.js, include a comment with your student Id, your full name in src.js. style properties can be split between external embedded and inline styling as you like.

For variable declarations use ES6 types.

Content of src.js

A global-scope variable called darkMode.

```
function start() {  
  - Check the browser local storage for mode:  
    o If mode is "dark" assign true to darkMode, otherwise assign false to darkMode.  
      ▪ try to do so without using the "if" operator.  
  - if darkMode is true call setDark()  
  - if darkMode is false call setLight()  
}  
  
function changeMode() {  
  - if darkMode is true  
    o set darkMode to false  
    o call setLight()  
  - if darkmode is false  
    o set darkMode to true  
    o call setDark()  
}  
  
function setDark()  
{  
  - Set the background color for the html page changes to black  
  - Set the text color for the html page changes to white  
  - Set the background color of the button changes to white.  
  - Set the text color of the button changes to black.  
  - Set the button text changes to "Light Mode"  
  - If darkmode is true  
    o set "dark" to the local browser storage with key "mode".
```

```

- Otherwise:
  o set "light" to the local browser storage with key "mode".
}

function setLight() {
  - Set the background color for the html page changes to white
  - Set the text color for the html page changes to black
  - Set the background color of the button changes to black
  - Set the text color of the button changes to white
  - Set the button text to "Dark Mode"
  - Save darkmode to localStorage with key "mode"
}

function displayMark(mark) {
  - Given a mark display the correct output from this table to markDisplay
    o Distinction 70 - 100
    o Merit1 63 - 69
    o Merit2 55 - 62
    o Pass 40 - 54
    o Fail Less Than 40
}

```

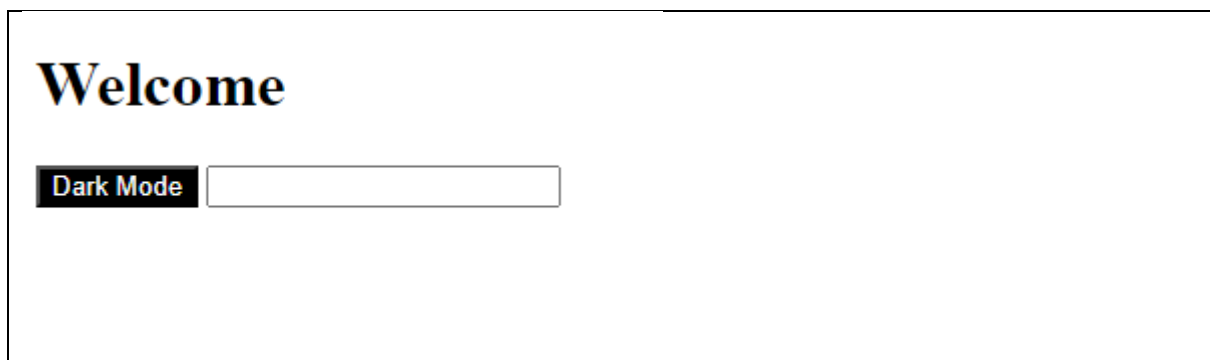
Your html page should have the following:

- A HTML container
 - o A Head container
 - A comment with your student Id, your full name and the date
 - A title element containing the file name
 - A stylesheet link to a style.css
 - A Viewport Meta tag
 - An external script tag
 - o A body container
 - A heading 1 with
 - id "welcome"
 - text "welcome"
 - A button called "Dark Mode"
 - Calls changeMode onclick
 - With a black background and white text
 - When the page loads call the function called start()
 - A number input
 - oninput calls getMark
 - A heading 3 called "markDisplay"

Your webpage layouts should look similar to (but not exactly like) this when loaded Upload index.html and src.js



Dark mode



Light mode