

Programming Question:

Download and extract the zipped `midterm_practical.html` and `midterm_practical.js` file [midterm_practical files](#). Complete both `midterm_practical.html` [4 points] and `midterm_practical.js` files to achieve the tasks as follows.

[6 points] When the user chooses a date and click the "Get Weather" button, a random "rainy" or "sunny" weather with (50 percent chance to be either rainy or sunny) and a random temperature from 5 to 25 is generated (real number with certain precision, e.g., 18.3). To be simple, the date needs not be considered or used in the program. A message of " The current forecast of the chosen date is WEATHER and the average temperature is predicted to be TEMP " should be shown. Note WEATHER should be replaced with either rainy or sunny, TEMP should be replaced with temperature generated. Hint: Math functions can be used.

[8 points] Then, the user can input their clothes style in the following text box with exactly either "light" or "warm" (quotes are not needed for the input). Based on different input, the weather, and

the temperature, different messages will be generated. To be specific,

if the weather is rainy and the clothes style is light, then the message shows "Thin waterproof jacket is recommended. "

if the weather is rainy and the clothes style is warm, then the message shows "Raincoat is recommended. "

if the weather is sunny, the clothes style is warm, and the temperature is above 15, then the message shows "Hoodie is recommended. "

if the weather is sunny, the clothes style is warm, and the temperature is not above 15, then the message shows "Wool jacket is recommended. "

if the weather is sunny, the clothes style is light, and the temperature is above 15, then the message shows "T-shirt is recommended. "

if the weather is sunny, the clothes style is light, and the temperature is not above 15, then the message shows "Long sleeve is recommended. "

If the weather, or temperature, or clothes style is not valid, then, show message "Something went wrong. "

A sample run looks like the following