JS-A3#4

Task 1	Watch the lesson video carefully twice (at least). Then answer the following or write the code as discussed in the video for
	a. Given the checkboxes, implement
	i. Get the checked values
	ii. Check or uncheck all
	iii. Disable or enable all
	iv. Define the onchange event handler
	v.
	b. Creating checkboxes
	i. Define a function that takes an array of string and id as parameter and returns the html to create checkbox for each element of the array. Note that the ids of the checkboxes will be id+index.
	ii. Modify the above function to take an array of JSON as parameter. The JSON has the fields txt and selected (boolean). Those checkboxes whose selected is true, will be checked.
	c. Given the radio buttons, implement
	i. Get checked value using getElementById
	ii. Get checked value using getElementsByName
	iii. Check a specific radio
	iv. Disable or enable all
	v. Define an onchange event handler
	d. Define a function that takes a name, array of JSON and selectedValue as parameters and returns the html for a radio group. The radio with selectedValue is checked. Note that the JSON have a txt and value.List of words starting with the text
	e. Explain the function getElementsByName.
	f. What are differences between getElementById and getElementsByName.
	g. Why do we prefer to use getElementsByName to check the value of a radio group.

Task 2.1	Create 4 checkboxes to take the choice of subjects from a student. The 4 checkboxes are Mathematics, Physics, Chemistry and English. Add a button below the checkboxes. Display the status of all the checkboxes when the button is clicked.
Task 2.2	Ensure that Mathematics and English are checked when the page loads.

Task 3	A checkbox is shown. When the checkbox is checked, a text field is shown to enter the email id. Uncheck the checkbox, and the text field is no longer shown.
	☐ Use a different email id ☑ Use a different email id Enter the other email id

Task 4.1	Create 4 radios to take the grade obtained by the student. The text shown along with the radios is Grade A, Grade B, Grade C and Grade D and the values is A, B, C and D respectively. Ensure that only 1 radio can be checked at any point of time.

	Add a button below the radios. Display the status of all the radio as well as value of the checked radio when the button is clicked.
Task 4.2	Ensure that radio for Grade B is checked when the page loads.

Task 5	Three radio buttons are shown.
	○ Angular ○ React ○ JavaScript
	When a radio button is checked, more fields are displayed as shown below.
	● Angular ○ React ○ JavaScript Select the Angular version ⌄
	○ Angular ● React ○ JavaScript ☐ Do you know React Native
	○ Angular ○ React ● JavaScript ○ Bootstrap 3 ○ Bootstrap 4

Task 6.1	You have been given an array of the sports played in a school. ["Cricket", "Football", "Basketball", "Badminton", "Table Tennis"] Create a form which takes the name of the student (text field) and the sports played by the student (as checkboxes). On clicking submit, create a JSON of the student with the field name (string) and sports (array of strings) and add the student to an array. Note : Use the array to generate the radios, so that if the array of the sports played is changed, everything should work fine and the changes should reflect automatically.
Task 6.2	Show the list of names of the students added to the array in a list below. Clicking on the name of any student, show show the form in edit mode with the name pre-populated (and read only) and the checkboxes for the sports that student plays pre-selected. The button should show Update. Clicking on Update should update the details of the student.

Task 7.1	For an upcoming quiz competition, the team is being chosen. All the names of the applicants have been provided in an array. ["Jack", "Tim", "Bob", "Mary", "Anna", "Martha", "Steve", "Ed", "John, "Sid"] Create a page which has two sections - Applicants and Team. Initially, in the applicants section, names of all applicants is shown with a checkbox before it. In the Team section, the size of team is shown to be zero as no person has been selected. When an applicants checkbox is checked, that applicant is removed from the applicants section and shown in the Team section. The size of the team is also suitably updated.
Task 7.2	Put a constraint that only 5 members can be chosen for the team. As soon as the team size reaches 5, disable all the checkboxes in the applicants section.
Task 7.3	In the Team section, also show a button with x in front of each team member. Clicking on that button, will remove that person from the team and show that person in the applicant section. The team size will also be suitably updated.

	Note that if the checkboxes in the applicants section were disabled because of the constraint in the above task, they will now be enabled as the team size has reduced.

Task 8.1	You have been given an array of the sports played in a school. ["Cricket", "Football", "Basketball", "Badminton", "Table Tennis"] Each student has to chose 1 sport to play. Create a form which takes the name of the student (text field) and the sport played by the student (as radio). On clicking submit, create a JSON of the student with the field name (string) and sport (string) and add the student to an array. Note : Use the array to generate the radios, so that if the array of the sports played is changed, everything should work fine and the changes should reflect automatically.
Task 8.2	Show the list of names of the students added to the array in a list below. Clicking on the name of any student, show show the form in edit mode with the name pre-populated (and read only) and radios of the sports played with the sport that the student plays checked. The button should show Update. Clicking on Update should update the details of the student.

Task 9.1	The technical skills are being taken as input in this form. Users has been asked to choose the technologies they know. The technologies are given in an array. Share your technical capabilities ☐ Javascript ☐ Python ☐ Java ☐ Android ☐ iOS Note : Use the array to generate the checkboxes, so that if the array is changed, everything should work fine and the changes should reflect automatically.
Task 9.2	When a technology is checked, radio buttons are shown for the user to input their skill level. Share your tehnical capabilities ☑ Javascript What is your level : ○ Beginner ○ Intermediate ○ Good ○ Excellent ☐ Python ☐ Java ☐ Android ☐ iOS If the technology is unchecked the radio buttons are not shown.
Task 9.3	If the level chosen is Good or Excellent, a text field is shown to enter the details of a project done. Note that this is not shown when Beginner or Intermediate is checked. Share your tehnical capabilities ☑ Javascript What is your level : ○ Beginner ● Intermediate ○ Good ○ Excellent ☐ Python ☐ Java ☐ Android ☐ iOS

JS-A3#4

Share your tehnical capabilities
- ☑ Javascript
- What is your level : ○ Beginner ○ Intermediate ⦿ Good ○ Excellent
- Share the link of a project [   ]
- ☐ Python
- ☐ Java
- ☐ Android
- ☐ iOS

Note that multiple technologies can be checked at the same time.

Share your tehnical capabilities
- ☑ Javascript
- What is your level : ○ Beginner ○ Intermediate ⦿ Good ○ Excellent
- Share the link of a project [   ]
- ☑ Python
- What is your level : ⦿ Beginner ○ Intermediate ○ Good ○ Excellent
- ☐ Java
- ☑ Android
- What is your level : ○ Beginner ○ Intermediate ⦿ Good ○ Excellent
- Share the link of a project [   ]
- ☐ iOS