Practical - 9

Prerequisite: **Perform the programs given in the Lab. manual provided during the regular classroom sessions.**

1. How to make a computer ready for web development using React JS? Give necessary guidelines and steps for each alternative.
2. Cerate appropriate React code for the following web-application requirement:
   - Implement a Hello World application.
3. Cerate appropriate React code for the following web-application requirement:
   - Create and add various React components representing (justify your answer) –
     - Text box
     - Label
     - Text area
     - Radio button
     - Button
     - Select
     - Table
     - Anchor
     - Image
     - Audio
     - Video
4. Cerate appropriate React code for the following web-application requirement:
   - create a simple login form.
     - A user should be able to enter a username and password, then click the login button,
     - In case of a correct password, display a "Welcome, [username]!" message.
     - If case of incorrect password, display an error message.
5. Create appropriate React code for the following web-application requirement:
   - Display a digital clock to show current time.
   - Update time every second.
6. Using class component
   - Create a form component to
     - have user's age as input from user using 'text' element
       - Apply necessary validations on the input data
       - Accept only numeric key strokes
       - On same web-page print whether the user is:
       - under 18, adult, sr. citizen
     - have user's gender as input from user using radio button element
       - make it as compulsory input (user can't leave that field untouched)
     - have user's hobby as input from user using 'select' element
       - list of hobbies can be:
         - System programming
         - Web application programming

- Mobile development
- Testing
- Document writer
- Database administrator
- System analyst
- System/cloud architect
- Display the hobby which has been selected by user, in a label.
- have user's acceptance by means of a checkbox element with a text "I agree." Upon change in value of that checkbox - display one of the message: "User agreed" or "User didn't agree", in a label element.
- Finally, when the form is submitted, make sure that all form input elements are not empty. Otherwise, cancel form submission.

7. Enable user to choose multiple hobbies in previous program.
8. Perform the above-mentioned program no.: 6 & 7 using – class-based form component creation approach.