IBM – Advanced Diploma on IT, Networking and Cloud Computing Core Module – 03 (PRACTICAL)

1. How would you create a basic webpage structure using HTML that includes a header, a navigation bar, a main content area, and a footer?
2. How can you use Bootstrap to create a button that appears green and becomes larger on hover?
3. Write a simple HTML form that includes an input for the user's name and a submit button. How can you style this form using Bootstrap to make it look better?
4. How can you use CSS to change the background color of a webpage to light blue?
5. How do you include an external CSS file in an HTML document?
6. Write a JavaScript function that displays an alert with the message "Hello, World!" when a button is clicked.
7. How do you add a hover effect in CSS to change the text color of a paragraph to red when the mouse hovers over it?
8. How can you use JavaScript to change the text of a paragraph when a button is clicked?
9. Write an HTML code to create a list of your favorite fruits using an unordered list, and style it using CSS to have a bullet color of your choice.
10. Write the HTML code to link an external JavaScript file named "script.js".
11. Write a JavaScript function that changes the background color of a webpage when a button is clicked.
12. How can you create a dropdown menu in Bootstrap?
13. Write the HTML and CSS needed to create a centered heading on a webpage.
14. How can you use JavaScript to hide a paragraph when a button is clicked?
15. Write a basic HTML page that uses Bootstrap to create a responsive table with three columns: Name, Age, and City.
16. Write the SQL statement to create a database named my_database and PHP code to connect to this database using MySQLi.
17. Write PHP code to connect to a MySQL database and display all user names from the users table.
18. Outline the steps to create a new Laravel project and configure the .env file to connect to a local MySQL database named laravel_db.
19. Write a PHP script to insert a new record into a MySQL table called products with fields name and price.
20. Write a simple PHP script to update the email of a user in the users table in MySQL based on their user ID.
21. Write a SQL query to select all records from a customers table where the age is greater than 30.

22. Write PHP code to delete a record from the orders table in MySQL based on the order_id.
23. Write a PHP function named countEmployees() that connects to a MySQL database and returns the count of records in the employees table.
24. Write a SQL query to create a table named orders with fields order_id, product_id, quantity, and order_date.
25. Write PHP code to fetch all records from a products table and display them in an HTML table format.
26. Write a PHP script to fetch a record from the users table by user ID and display the user's name. Task: Write PHP code to fetch the user with ID 2 and display their name.
27. Write the Laravel route code to display the welcome view when the user visits the root URL (/).
28. Write the Laravel Controller code to handle storing a new user when a form is submitted.