Assignment 5(PHP) (Examples are compulsory)

1. How does PHP support looping? Explain with an example.
2. What are the main uses of PHP in web programming? Why PHP is called a server-side scripting language?
3. Explain the syntax and usage of PHP's foreach() loop. Also, create a script using for loop to add all the integers between 0 and 10 and display the total.
4. Explain different types of arrays with an example. Write a PHP program in which we provide marks of at least 5 sub as associative arrays to calculate the total of subjects.
5. Explain different types of Array functions at least 10.
6. Explain all kinds of string functions used in Php.
7. $list=[2,6,10,8,4,7],$lang=["PHP","JS","C","CPP"] $days=["Mon"=>2," Tue"=>3," Wed"=>4," Thu"=>5]

   From the above array solve the following question.
   - Delete an individual element 8 from $list array.
   - Delete the last element from an array.
   - Delete the 1st element from the $lang array.
   - Access last element from $lang array.
   - Extract value from $days array.
   - Extract key from $days array.
   - Access 3rd element from $list array.
   - Sor $lang array in ascending order
   - Check if value 20 exists in $list array.
   - Calculate the size of $lang array
   - Calculate the sum of days in $days array
   - Combine $list and $lang array
   - Display $days array in tabular form using columns as days and count.
   - Reverse the $list array
8. How are functions used in PHP? Write a PHP function that checks whether a given number N is positive or negative.
9. Write code in PHP that accepts two strings from the user and displays them after concatenation Also write two string functions
10. Explain the syntax and usage of Multidimensional Arrays in PHP. Give example
11. Explain the difference between Static and Dynamic Websites
12. Differentiate between client-side and server-side scripting.
13. Write a program to show the day of the week using the switch.
14. Write a factorial program using for loop in PHP.
15. Write a PHP program to check if a person is eligible to vote. (must be 18 to vote)
16. Write a PHP program to check whether a number is positive, negative or zero.
17. Write a PHP program to reverse the string.
18. Write a code for the following. Write your name and says hello to your name

Please input your name:

[_____] [Submit Name]

Hello simanta kasaju

19. Write a program to create a Chess board in PHP using for loop.
20. Create a script to construct the following pattern, using nested for loop. Go to the editor

    ```
    *
    * *
    * * *
    * * * *
    * * * * *
    ```

21. write a simple calculator program in PHP using a switch case. (Addition, Subtraction, Multiplication, Division)
22. How do we return multiple values from user-defined functions in PHP?
23. Explain the math function used in PHP.
24. What is type conversion? How does PHP deal with type conversions? Explain with an example.
25. Write a PHP to list out all prime numbers within a given range.
26. What is the difference between echo () and print (),print_r().
27. Explain any 6 String handling functions used in PHP with an example.
28. What is the purpose of the session and cookie? Differentiate between them (any 6 with code).
29. What is a Session? How are session variables encoded and decoded in PHP? Give examples.
30. Explain any 4 session handling functions in PHP.
31. Use a foreach array with a multidimensional array to print a Family table that includes (Name, Age, Gender, and Occupation).
32. Explain the use of $_SESSION and $_COOKIES. Also, mention the difference between sessions and cookies.
33. What are Cookies? How are they created, used, and deleted in PHP? Give examples.
34. Describe PHP file permissions. Also, explain the functions which are used to open and close a file in PHP.
35. How exceptions are handled in PHP. Show the concept of it using a suitable example.
36. Explain how files are handled in PHP? Explain all kinds of file-handling functions with an example. How to write content in a particular file using PHP.
37. What is a regular expression? How does PHP support Pattern matching? Explain with an example.
38. Explain different kinds of Array in PHP with an example.
39. Explain select, insert, update, delete, and join MYSQL commands with an example.
40. Explain form handling in PHP with an example.[Done in lab].
41. Write CRUD queries required to connect, fetch, delete, and update data in PHP from MYSQL.
42. Write a PHP code to retrieve the name and password from the database.
43. Write a Server-side script for user registration having i/p fields name, password, age, email, and phone with proper server-side validation.
44. Create a registration form that includes Name, Email, Phone, Password, and Confirm Password. Also validates it with PHP. (All input should be fulfilled else *required message will display, the

name must be of 8 characters, email should be in the proper format, the phone must be of 10 digits, password includes only the number and must be of 8 digits, and starting and ending with 0, Confirm password and Password must match)

45. Explain $_SERVER, $_POST, $_GET, $_REQUEST.
46. What is the GET and POST method in PHP? How do they differ?
47. Make a login form with your email and password. Write a program to make dynamic login using PHP and MYSQL query. Your program must contain a database connection file from PHP to MYSQL.
48. Develop a login form that includes Username and Password (Username= "admin" Password= "admin" already presents in your database). Write a PHP and MYSQL. first to verify log in credentials. Second, when login is successful it navigates to the form in question 5. Filling out the form should display the information in the table structure. (Show database connection and assume database name and table name yourself)
49. Join in MYSQL (Inner join, Outer join, Full outer)
50. Write short notes on SQL injection
51. Write SQL for following.
    a. Create a table Employee with Column Id,Name,Salary,Gender,Address,DOB,Age
    b. Insert any 6 records.
    c. Display Information of an employee
        i.   Whose age is less than 20.
        ii.   Who is from Chitwan or has salary less than 30000
        iii. Whose name is Sita and lives in Kathmandu.
        iv.   Whose id is in between 2 and 5 and salary> 40k and whose gender is male.
        v.   Who is not Ram and has a salary <40k and age >40.
        vi.   Whose name is either Sita or Gita and from Chitwan.
    d. Update Information of an employee and set
        i.   Name to ram Whose age is less than 20.
        ii.   Name to Shyam and address to Pokhara who is from Chitwan or has salary less than 10000
        iii. DOB to 1994-09-09 and Age 29 whose name is simanta and belongs to Kathmandu.
        iv.   Increase salary by 30% who is male and from Chitwan and age<30.
        v.   Decrease the salary by 20% who does not belong to Kathmandu city and age <30.
    e. Delete Information of an employee
        i.   Who belongs to Biratnagar city.
        ii.   Whose name is Shyam and address is Pokhara and has a salary less than 10000
        iii. Whose DOB is 1994-09-09 and Age 29 whose name is simanta and belongs to Kathmandu.
        iv.   Who are male and from Chitwan and age<30.
        v.   Who earns more than 30k and not belong to Kathmandu city and age <30.
    f. Order the table by salary in ascending order
    g. Order the table by Name in ascending order 1st and then descending order.