a Design a DTD, corresponding XML document and display it in browser using CSS

Theory: 1) Define the styles soles for the text element such as font-size, color, font-weight, etc.
2) Define each element either as a block, inline or list element, using the display property of css
3) Identity the titles and bold them

Code :-

filename: employee dtd

(! ELEMENT employee (fixstname, lastname, email))

(! ELEMENT fixstname (#PCDATA))

(! ELEMENT lastmome (#PCDATA))

<! ELEMENT email (#PCDATA)>

filename: employee.xml

(?xm) version ="1.0"?)

<?xml-stylesheet type = "text/css" haef = "employeefile.css" ?)</p>

L'IDOCTYPE employée SYSTEM "employée dtd")

(employee)

(fixstname) Dharmit (/fixstname)

(lastname) Shah (/lastname)

(email) dhamit@gmail.com (lemail)

(employee)

filename: employeefile.css employees tont-size: 25 px; font-weight: bold; colox: blue; Out put : Dharmit Shah dharmit@gmail.com

```
b Design on XML document and display it in browsex
  using XSL.
  Code:
      Creating student xml as:
 (?xml version ="1.0" encoding ="UTF-8"?)
(?xml stylesheet type = 'text/xs!" href = "vole.xs!"?)
  (student)
     Knomes Dhormit Shoh Unome)
   (bronch) CSE (1bronch)
   Lage) 18 (lage)
     (city) mumboi (/city)
     (nome) Simson Agarwol (Inome)
     (bronch) (SE (1bronch)
     (age) 23 (lage)
    Lcity) Agra Klcity)
    (th) None (1th)
     (th) Branch 21th)
     (th) Age (1th)
     (th) City (1th)
    (1+v)
    (xs1: for -each select = "student's")
    (18)
```

(td) (xsl:value - of select = "name" /) (1td)

(td) (xsl:value - of select = "branch" /) (1td)

(td) (xsl:value - of select = "age" /) (1td)

(td) (xsl:value - of select = "city" /) (1td)

(tx)

(1xsl: for-each

(1table)

(1xsl: femplate)

(1xsl: stylesheet)

Output

Students basic Defails

| Name | Branch | Age | city |
|----------------|--------|-----|--------|
| Dhamit Shah | CSE | 18 | Mumbai |
| Sinxen Agranal | CSE | 23 | Agra . |

c Design XML schema and corresponding XML document Theory: A xml schema is used to define the structure of on THE document exs: element nome = "employee"): It definer the element nome employee (xs complex type): It defines that the element 'employee' is complex type (xs: sequence): It defines that the complex type is a sequence (xs:-element name) It defines that 'traham' is of string type Code: employer . xsd (9xm ression = "1.0" ?) (xs: schema xmlns:xs ="http://www.w3.org/2001/xm/schema") (xs: element name = "employee") (xs: complex type) (xs: sequence) (xs: element nome = "Firstnome" type = "xs string"/)
(xs: element nome = "Lastnome" type : string "/) Lxs: element nome = "email" type : "xs:string" /) (1x3) sequence) (1xs complex type) (1xs: element)

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(1xs: schema)

employee.xml

(?xm) version = "1.0" ?)

Cemployee xmlns: xs: = "http://www.ws.org/2001/xmlschena = instance "rsi:schema = "employee: xsd")

(fixthorne) Dhormit (tixtmane)
(lastnorne) Shoh (lastnorne)
(email) dharmitshoh egmoil.com (lemoil)
(lemployee)

Output

Shoh dhormitshoh agnoil com 2 Basic PHP-I

a) Write a PHP Program to accept a number from the user and print it factorial

Theory: The factorial of a number n is defined by the product of all digits from 1 to a (including 1 · It is denoted by n! and is colculated only for positive integers
· Factorial of 0 is always 1.

The simplest way to find the factorial of a number is by using a loop.

filename: input.html

(html)

(body)

(form method = "post" action - "fact php") Enter a number: (input type ="text" name ="n1") (bx) (input type = "submit" value = "Factorial")

(1form)

(1body) (1html)

```
fact filename : fact php
<?php
       $n1 = (int) $_POST['n1'];
       $ fact = 1:
       for ($i=1; $i <= $n1; $i++)
               $fact = $fact * $i;
        echo Factorial of ". Int. " is: " . sfact;
Output:
         Enter a number:
         submit
```

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2 is the only even prime number

It is notived number greater than I and so o and I not prime number.

Code:filename: Input.html

(html) (head)

(title) Prime number (/title)

(head)

(form method = "post" action = "checkPrime.php")

Enter a number : (input type = "text" name = "n1") (bx)

(input type = "submit" value = "check Prime")

(Itom)

(body)

(/html)

```
check Prime. php
     $n1 = (int) $_Past['ni'];
     $flag = 0;
     for ($1 = 2; $i (= $n1/2; $i++)
        if ($n1.1.$i == 0)
      if ($flag == 0)
echo "Number is prime";
          echo "Number is not prime";
                              97
           Enter a number:
           check Prime
           Number is prime.
```

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03 PHP Basic - II

a Write a PHP code to find the greater of 2 numbers.

Accept the no. from the user.

Theory: There are three methods to add two numbers:

- · Adding in simple code in PHP
- · Adding in form in PHP
- · Adding without using anithemetic operator (+)

Code:

Filenome: in put. html

(html)

(head)

(title) Greater of two nos (/title)

(Thead)

(body)

(form method = "post action = "check.php")

Ist Number: Linput type = "text" name = "n1") (br)

2nd Number: Linput type = "text" name = "n2") (br)

Linput type = "submit" value = "check")

(form)

(1body) (1html)

```
check.php
(?php
      $n1 = (int) $-POST['n1'];
      $n2=(int) $-POST['n2'];
      if ($n1 ) $n2)
           echo $n1." is greater than" $n2;
      else if ($n2 ) $n1)
           echo $n2." is greater than" $n1;
      else
          echo "Both the nos are equal";
         1st Number:
         Check
       355 is greater than 332
```

```
b Write a PHP program to display the following Binary Pigramid
 Theory: ,' POST = sends the torm data as an http post
          Fransaction
       21 echo - used to display the output
       3) for - used to traverse of time.
       or If-else = It executer one block of code if the
                  specified condition is true and another
                   block of code if the condition is tour telse
 Code:
<7 php
       for ($i=0; $i(4;$i++)
           for ($ j = 0; 5 = $ i; $ j++)
               if (($;+$;)1.2 ==0)
                          echo "1".
               else
                        echo "0":
```

?)

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echo "(br)";

11) stragge (mp (): compose two strings (case insensitive)

```
Code:-
(9php
      echo stolen ("Hello");
      echo strchx ("Hello world!", "world");
      echo str-replace ("world", "Dhamit", "Hello world!");
      echo sto-word-count ("Hello world!")
     echo stopos ("I love php, I love php too!", "php");
     echo substr_count ("Hello world. The world is nice", "world").
     echo substr ("Hello woold", 6);
     echo statolower ("Hello WORLD").
     echo statoupper ("Hello WOPLD.");
     echo stromp ("Hello world!", "Hello world!");
     echo strasecmp ("Hello world!", "Hello world!"):
        Hello Dharmit!
          Hello world
          HELLO WOPLD
```

b Write a PHP program to create one dimensional array.

Theory:

1) A php script starts with <2 php and ends with 9)

e) count (): setum the length of an array

3) indexed arrays: The index can be assigned automatically (index always starts at 0)

4) To loop through and print all the values of an indexed array we can use for loop.

5) Associative growy - used to named keys that are assign to them.

Code:

<?php

\$cars = array ("volvo", "BMW", "Toyota"); echo "I like". \$cars[o].", " . \$cars[i]. "and" . \$cars[2].

echo count (\$ cars);

for (\$x = 0; \$x < \$arrlength; \$x++)

5

echo \$ cars [\$2];

echo "(br)";

3

11 Associative arrays

\$age = array ("Peter" => "35", "Ben" → "37", "Joe" => "43"); echo "Peter is". \$age ['Peter']. "years old.";

?)

PTO

Output :

1 like Volvo, BMW and Toyota.

Volvo

BMW

Toyota

Peter is 35 years old.