

# Rajesh Sir : PHP Technical Que

## 1) What is PHP ?

- PHP personal Home Page
- PHP is an acronym for "PHP: **Hypertext Preprocessor**"
- PHP invent in 1994 by Rasmus Lerdorf
- PHP is a widely-used, open source server side scripting language
- PHP can generate dynamic page content
- PHP is a powerful tool for making dynamic and interactive Web pages.
- PHP scripts are executed on the server
- PHP is free to download and use
- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP files have extension ".php"

## 2) PHP features ?

- Simple
- Interpreted
- Faster
- Open Source
- Platform Independent
- Case Sensitive
- Speed Comparison of ASP JSP , php faster
- Simplicity
- More frameworks & CMS

## 3) Why did you choose PHP?

- PHP Inherit from **c & c++**
- PHP runs on various **platforms/OS** (Windows, Linux, Unix, Mac OS X, etc.)
- PHP is compatible with almost all **servers** used today (Apache, IIS, etc.)
- PHP supports a wide range of **databases**
- PHP is **free**. Download it from the official PHP resource: [www.php.net](http://www.php.net)
- **PHP is easy** to learn and runs efficiently on the server side
- More **frameworks & CMS**

#### 4) What is new in PHP 9 ?

- PHP 9 is much faster than the previous popular stable release (PHP 5.6)
- PHP 9 has improved Error Handling

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#### Requirement of PHP

PHP

SERVER

MYSQL

**xampp** cross platform independent software

x cross platform

**a** **apache server**

**m** **mysql**

p perl

**p** **php**

Download <https://sourceforge.net/projects/xampp/>

INSTALL IN **D,E,F** NOT **C** DRIVE

Go => xampp > xampp-control > **START : apache & mysql**

**MySQL open : localhost/phpmyadmin in google**

#### 5) What software Eng SE ?

- state of the art of developing quality software on time and within budget

- Trade-off between perfection and physical constraints
- SE has to deal with real-world issues
- State of the art!
- Community decides on best practice + life-long education

#### 6) What are SDLC & its rules?

- For project development rules & regulation need to be followed for best quality output at defined time limit
- Rules are Software Development Life Cycle – SDLC
- It's part of software engineering
- Six rules to be followed...

1. Requirement Gathering / collection information

2. Analysis & SRS

3. Designing

4. Implementation (Coding)

5. Testing

6. Maintenance

#### 7) What is **DBMS & RDBMS** and also Difference ?

- o Database management system is a software which is used to manage the database. For example: **MySQL**, Oracle, etc are a very popular commercial database which is used in different applications.
- o DBMS provides an interface to perform various operations like database creation, storing data in it, updating data, creating a table in the database and a lot more.
- o It provides protection and security to the database. In the case of multiple users, it also maintains data consistency.

Rdbms

**RDBMS** stands for *Relational Database Management Systems..*

All modern database management systems like SQL, MS SQL Server, IBM DB2, ORACLE, My-SQL and Microsoft Access are based on RDBMS.

It is called Relational Database Management System (RDBMS) because it is based on relational model introduced by E.F. Codd.

DBMS + E.F. Codd 12 Rules = RDBMS.

## 8) What is SQL & TYPES?

- SQL stands for **Structured Query Language**
- SQL lets you access and manipulate databases

### 4 Types

#### 1) DDL Data Definition Language -----> 4 Commands create / alter / drop / truncate

⇒ It is used to define the structure of **databases and tables**.

⇒ We can **create**, **modify** or **delete** the structure of tables.

#### Create :

=>create database shop

=>create table customers(id int PRIMARY key AUTO\_INCREMENT, cust\_name varchar(100),user\_name varchar(100), password varchar(100),email varchar(100), mob bigint(11), address varchar(255), pincode bigint(11))

=====

1 foreign key

=>create table feedbacks(id int PRIMARY key AUTO\_INCREMENT, fed\_comment varchar(100), fed\_date date,cus\_id int(11), FOREIGN key(cus\_id) REFERENCES customers(id));

2 foreign key

=>create table feedback\_product(id int PRIMARY key AUTO\_INCREMENT, fed\_comment varchar(100), fed\_date date, cus\_id int(11),FOREIGN key(cus\_id) REFERENCES customers(id), pro\_id int(11), FOREIGN key(pro\_id) REFERENCES product(id));

#### alter:

ALTER TABLE customer add(gender varchar(100)) AFTER 'password'; // add column

```
ALTER TABLE `customers` CHANGE `name` `username` VARCHAR(255)
```

ALTER TABLE `customer` CHANGE 'phone' 'mobile' BIGINT(11) // change column name

ALTER TABLE `customer` DROP `gender`; // column delete

#### drop:

drop database database\_name // drop database delete

drop table tbl\_name // drop table delete

ALTER TABLE `customer` DROP `gender`; // table column delete

**truncate: / delete all data from table /empty table**

truncate table tabl\_name // delete all table data not table

## 2) DML Data Manipulation Language 3 command insert / delete / update

⇒ insert:

```
insert into customer(cust_name,user_name,pass,email,mobile,address,pincode,gender)
values("Akshay","akashay701","12
34","akashay@gmail.com","5646944","Ahmedabad","325874","Male")
```

INSERT INTO customers

```
(cust_name,user_name,password,email,mob,gender,dob,address,pincode) VALUES
("Raj","raj@gmail.com","1234","raj@gmail.com","123467891","Male","1990-11-17","Chandl
odia","382481");
```

⇒ update: data update as per id

⇒ UPDATE customer set name="pavan Nagar" , password="abc" where id=3

⇒ delete: data delete as per id

delete from customer where id=3

=====

## 3) DQL Data Query Language : Select

⇒ Select Description: This will select 'n' columns from the table. Or To select all records from the database.

Select \* from customer // get all data with all column

Select cus\_id,cust\_name from customer // get all data with particular column

Select \* from customer where cus\_id=2

Select cus\_id,cust\_name from customer where cus\_id=2

## 4) TCL Transaction Control Language

=> rollback / commit

Rollback : ctl+z undo

commit : ctl+s save as

## 9) ALL sql Queries ?

Above all Command Queries

## 10) Join queries

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

Types Of Join : 3 Types **1) inner join 2) outer join 3) cross join**

### 1) Inner Join /Join

| <b>customer</b> |    | <b>Feedabck</b> |    |
|-----------------|----|-----------------|----|
| cust_id         | PK | fed_id          | PK |
| cust_name       |    | cust_id         | FK |
| pass            |    | msg             |    |

- select \* from customer join feedback on customer.cust\_id = feedback.cust\_id
- select feedback.\*,customers.name from customer join feedback on customer.cust\_id = feedback.cust\_id

| customer  | order    | product   |
|-----------|----------|-----------|
| cust_id   | order_id | prod_id   |
| cust_name | cust_id  | pro_name  |
| pass      | prod_id  | pro_price |

```
select * from order join customer on order.cust_id=customer.cust_id
      join product on order.prod_id=product.prod_id
```

## 2) Outer Join

⇒ Left Outer Join

```
select * from user_tbl left outer join feedback on user_tbl.uid=feedback.uid
```

⇒ Right Outer Join

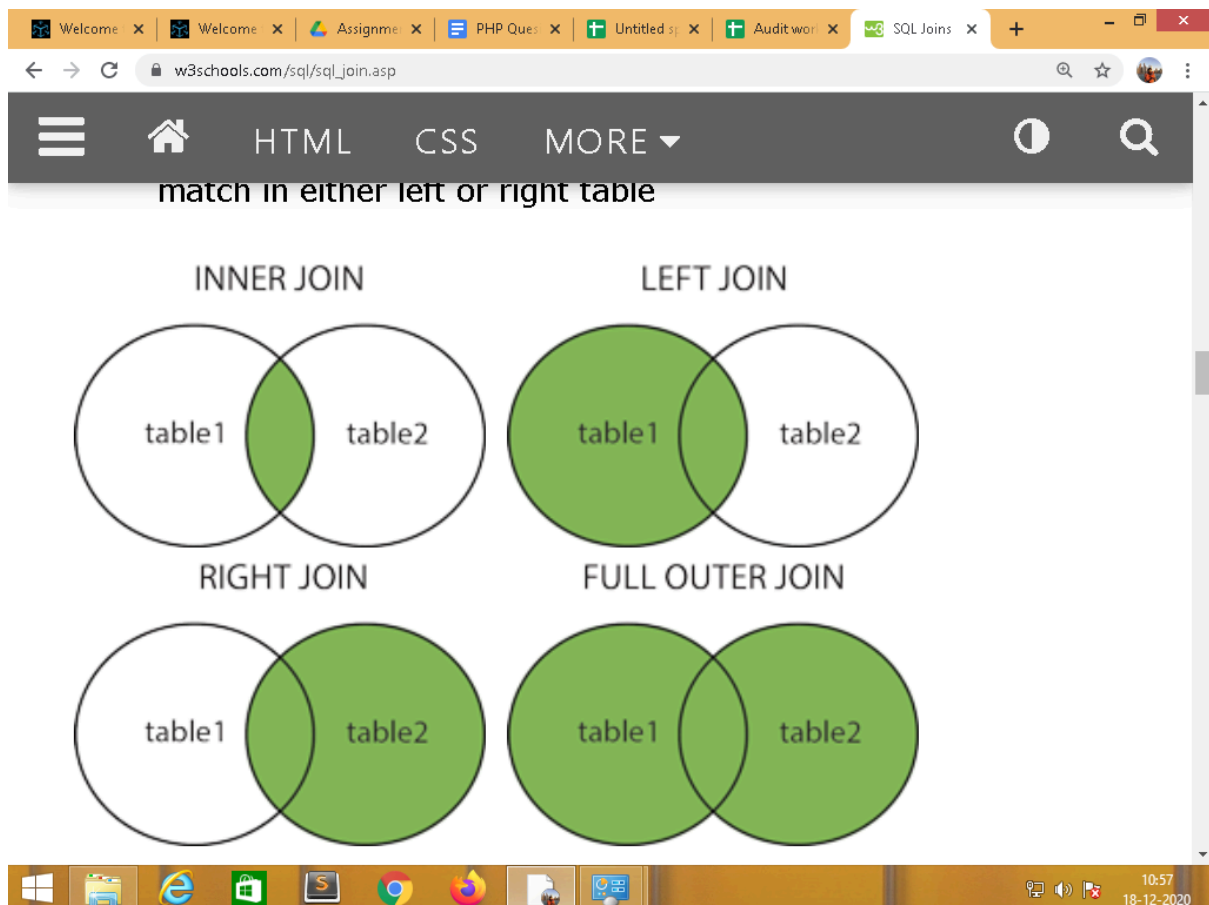
```
select * from user_tbl right outer join feedback on user_tbl.uid=feedback.uid
```

⇒ Full join

```
select * from user_tbl full join feedback
```

## 3) Cross Join

```
select * from user_tbl cross join feedback
```



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## 11) **index & Views** in SQL

The CREATE INDEX statement is used to create indexes in tables. Indexes are used to retrieve data from the database more quickly than otherwise. The users cannot see the indexes, they are just used to speed up searches/queries 100 times faster. (SBI BANK find Account Number)

Type : 2 type

**Simple**: on only one table column

**Composite** : on more than 1 column in table

Syntax : CREATE INDEX custindex ON customer(cus\_id,mobile))

## **Views (Security Concept/ sub menu virtual table) Exa: (BANK DUPLICATE TABLE)**

In SQL, a view is a virtual table based on the result-set of an SQL statement.

A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.

You can add SQL functions, WHERE, and JOIN statements to a view and present the data as if the data were coming from one single table.

**CREATE VIEW customer\_view AS SELECT cus\_id,cust\_name,mobile,address,pincode FROM customer**

## 12) Cursor /Procedure/Trigger

### **Cursor**

A cursor is a temporary work area created in the system memory when a SQL statement is executed

Two Type :

**Implicit** : DML statement **insert/update/delete/**      **Select** only one row



**Explicit : Select** more than one row data

#### **Procedure :**

A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. So if you have an SQL query that you write over and over again, save it as a stored procedure, and then just call it to execute it.

**Create procedure insert\_cust(**

**In cust\_name varchar(255),**

**In user\_name varchar(255),**

**In password varchar(255),**

**In email varchar(255),**

**In mobile bigint(11),**

**in address varchar(255),**

**in pincode bigint(11)**

**)**

**Begin**

**insert into customer(cust\_name,user\_name,password,email,mobile,address,pincode)**  
**values(cust\_name,user\_name,password,email,mobile,address,pincode);**

**End**

//

than

```
=>call insert_cust('janak','janak@123','1234','janak@gmail.com','21231541','Maninagar','123456')
```

```
=>call insert_cust('raj','raj@123','1234','janak@gmail.com','21231541','Maninagar','123456')
```

### Trigger :

A MySQL trigger is a stored program (with queries) which is executed automatically to respond to a specific event such as insertion, updation or deletion occurring in a table.

**BEFORE INSERT – activated before data is inserted into the table.**

**AFTER INSERT- activated after data is inserted into the table.**

**BEFORE UPDATE – activated before data in the table is updated.**

**AFTER UPDATE - activated after data in the table is updated.**

**BEFORE DELETE – activated before data is removed from the table.**

**AFTER DELETE – activated after data is removed from the table**

```
=>create table reg_log( uid int(100),unm varchar(100),pass varchar(100),gen varchar(100),lag  
varchar(100),cid varchar(100),img varchar(100),status varchar(100),entry_date_time datetime);
```

```
=>CREATE TRIGGER insert_trigger_reg BEFORE INSERT ON reg FOR EACH ROW
```

```
BEGIN
```

```
insert into reg_log(uid,unm,pass,gen,lag,cid,img,status,Entry_date_time) values  
(new.uid,new.unm,new.pass,new.gen,new.lag,new.cid,new.img,new.status,new.now());
```

```
END//
```

=====

### 13) Aggregate Function // Use all in Select Command

- ⇒ AVG() Returns the average value
- ⇒ MIN() Returns the smallest value
- ⇒ MAX() Returns the largest value
- ⇒ SUM() Returns the sum
- ⇒ COUNT() Returns the number of rows

⇒ FIRST() Returns the first value

⇒ LAST() Returns the last value

```
SELECT MIN(Price) AS SmallestPrice FROM Products;
```

14) Order by/group by/limit/between/like

```
SELECT * FROM Customers ORDER BY Country;
```

```
SELECT * FROM Customers WHERE CustomerName LIKE 'a%' / '%s' / '%s%' '[abc]%' ;
```

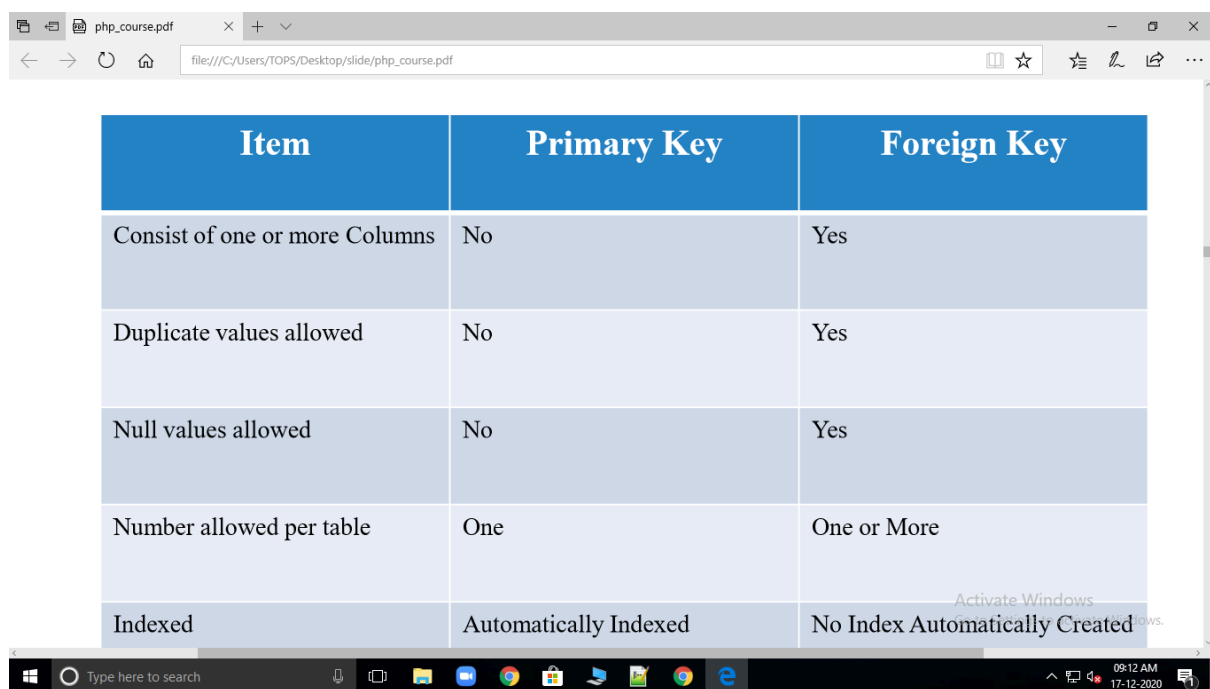
15) What is Difference between PK & fk ?

Primary key – column of table whose value can be used to uniquely identify records

Foreign key – column inside table that is primary key of another table

Unique key – like primary key can be used to uniquely identify a record

Difference between primary key and unique key is primary key will never allow null whereas unique key will allow null values. Only One primary Key on table & unique key more one



| Item                           | Primary Key           | Foreign Key                    |
|--------------------------------|-----------------------|--------------------------------|
| Consist of one or more Columns | No                    | Yes                            |
| Duplicate values allowed       | No                    | Yes                            |
| Null values allowed            | No                    | Yes                            |
| Number allowed per table       | One                   | One or More                    |
| Indexed                        | Automatically Indexed | No Index Automatically Created |

16) What is Normalization?

The process of structuring data to minimize duplication and inconsistencies. ☁ The process usually involves breaking down the single table into two or more tables and defining relationships between those tables.

1NF

2NF after 1NF

3NF after 2NF

17) Advance Sql

Index : query 100 time faster 1) simple 2) Composite

Views : Security concept sub table/ duplicate table

Procedure & function: Create procedure like INSERT/UPDATE/DELETE/SELECT

Cursor : temporary work area create in memory

- 1) Implicit // DML and select one row
- 2) Explicit // select more than one row

=====

18) what's new in HTML 5 ? like doctype / input type

- ⇒ The most interesting new HTML5 elements are:
- ⇒ New semantic elements like <header>, <footer>, <article>, and <section>.
- ⇒ New attributes of form elements like number, date, time, calendar, and range.
- ⇒ New graphic elements: <svg> and <canvas>.
- ⇒ New multimedia elements: <audio> and <video>.

19) Type of CSS & how to load external file in other file?

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

1)Inline CSS: use in direct tag by style attribute

```
<p style="color:red"></p>
```

2) Internal CSS : use for one page

```
<head>  
<style>  
p{ color:red }
```

```
</style>
</head>
```

3) External : create external page .css & load in <head> all websites page

style.css

```
<link href="style.css" type="text/css" rel="stylesheet">
```

3) External css // use as external .css page

```
<link href="style.css" type="text/css" rel="stylesheet" >
```

20) Explain Bootstrap class =>

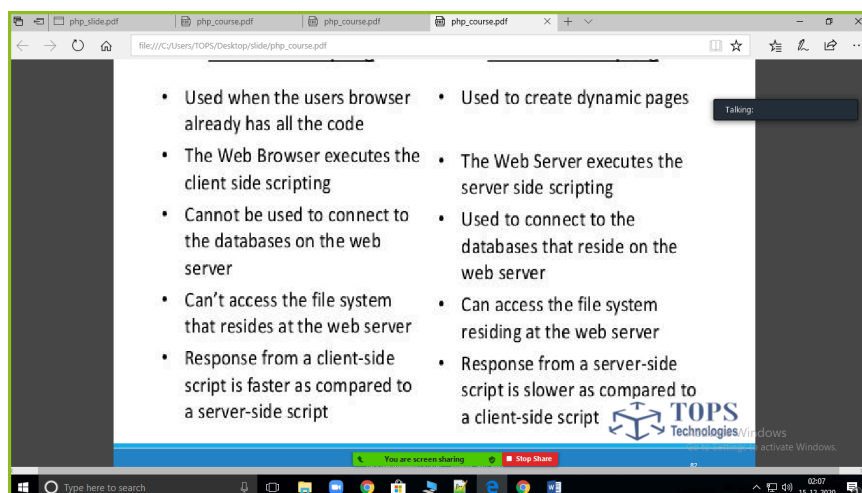
Container class/form class / table class /button class/Grid class

21) What is server & Client & Difference?

**Client OS :**

It is an operating system that operates within a desktop. It is used to obtain services from a server. It run on the client devices like laptop, computer and is very simple operating system

Web server: is a combination of software and hardware that outputs Web pages after receiving a request from a client. Server-side scripting takes place on the server



22) Core PHP

syntax <?php ?>    <? ?>

comment

```

<?php

// This is a single-line comment

# This is also a single-line comment

/*

*/

?>

```

## PHP Variables

```

<?php

$txt = "Hello world!";

$x = 5;

$y = 10.5;

?>

```

PHP has three different variable scopes:

- local : in function
- global : out of function
- static : static keywords

## PHP Data Types

- String
- Integer
- Float (floating point numbers - also called double)
- Boolean
- Array
- Object
- NULL
- Resource

⇒ Operator:

- Arithmetic operators    + - \* / %
- Assignment operators    = += -= \*= /= %=    a+=y / a=a+y
- Comparison operators    == != > < >= <= ===(value type)

- Increment/Decrement operators ++ --
- Logical operators && || !
- String operators . .=
- Array operators
- Conditional assignment operators/ ternary (cond)? "yes": "no"

## ⇒ PHP Conditional Statements:

IF /IF ELSE / IF ELSEIF ELSE / NESTED IF / SWITCH

⇒ Cond Loop:

⇒ while/do while /for /foreach / break /continue

# PHP Functions

The real power of PHP comes from its functions.

PHP has more than 1000 built-in functions, and in addition you can create your own custom functions.

- 1) PHP Built-in Functions
- 2) PHP User Defined Functions

## What is an Array?

An array is a special variable, which can hold more than one value at a time.

- Indexed arrays/numeric - Arrays with a numeric index
- Associative arrays - Arrays with named keys
- Multidimensional arrays - Arrays containing one or more arrays

## PHP - Sort Functions For Arrays

- `sort()` - sort arrays in ascending order
- `rsort()` - sort arrays in descending order

- **asort()** - sort associative arrays in ascending order, according to the value
- **ksort()** - sort associative arrays in ascending order, according to the key
- **arsort()** - sort associative arrays in descending order, according to the value
- **krsort()** - sort associative arrays in descending order, according to the key

#### Array all Function ;

array\_combine / array\_count\_values

/array\_diff/array\_keys/array\_values/array\_merge/array\_merge\_recursive/array\_sum/ array\_sizeof / in\_array

string Function

implode/explode/strlen/strpos/strupper/strtolower

For Password encryption & decryption :base64\_encode - base64\_decode / md5 / sha1

include- include\_once & diff

require -require\_once & dife

dife between include and require      ===== warning      === fatal\_error

#### 17) PHP GLOBALS Variable?

=> A global variable is predefined variable.

⇒ A global variable is a programming language construct, a variable type that is declared outside any function and is accessible to all functions throughout the program.

⇒ \$GLOBALS \$\_SERVER \$\_REQUEST \$\_POST \$\_GET \$\_FILES \$

⇒ \$\_COOKIE \$\_SESSION

#### 18) Explain Session with Example?

A session creates a file in a temporary directory on the server where registered session variables and their values are stored. This data will be available to all pages on the site during that visit.

Sessions are wonderful ways to pass variables. All you need to do is start a session by **session\_start()**; Then all the variables you store within a \$\_SESSION, you can access it from anywhere in the server

Create : **\$\_SESSION['var\_name']="var\_value";**

use : **echo \$\_SESSION['var\_name'];**

delete single: **unset(\$\_SESSION['var\_name']);**



delete all : session\_destroy();

### 19) Explain Cookie with Example?

- ⇒ Cookies are small text files loaded from a server to a client computer storing some information regarding the client computer, so that when the same page from the server is visited by the user, necessary information can be collected from the cookie itself, decreasing the latency to open the page
- ⇒ Create : setcookie('cookie\_name','cookie\_value',time()+10)
- ⇒ print : \$\_COOKIE['cookie\_name']
- ⇒ DELETE : setcookie('cookie\_name','cookie\_value',time()-10)

### 20) Explain \$\_SERVER with Example?

- ⇒ \$\_SERVER is a PHP super global variable which holds information about headers, paths, and script locations.

| Element/Code                   | Description  |
|--------------------------------|--|
| \$_SERVER['PHP_SELF']          | Returns the filename of the currently executing script                                     |
| \$_SERVER['GATEWAY_INTERFACE'] | Returns the version of the Common Gateway Interface (CGI) the server is using              |
| \$_SERVER['SERVER_ADDR']       | Returns the IP address of the host server  |
| \$_SERVER['SERVER_NAME']       | Returns the name of the host server (such as www.tops-int.com)                             |
| \$_SERVER['SERVER_SOFTWARE']   | Returns the server identification string (such as Apache/2.2.24)                           |
| \$_SERVER['SERVER_PROTOCOL']   | Returns the name and revision of the information protocol (such as HTTP/1.1)               |
| \$_SERVER['REQUEST_METHOD']    | Returns the request method used to access the page (such as POST)                          |
| \$_SERVER['REQUEST_TIME']      | Returns the timestamp of the start of the request (such as 1377687496)                     |
| \$_SERVER['QUERY_STRING']      | Returns the query string if the page is accessed via a query string                        |
| \$_SERVER['HTTP_ACCEPT']       | Returns the Accept header from the current request   |
| \$_SERVER['SERVER_SIGNATURE']  | Returns the server version and virtual host name which are added to server-generated pages |
| \$_SERVER['PATH_TRANSLATED']   | Returns the file system based path to the current script                                   |
| \$_SERVER['SCRIPT_NAME']       | Returns the path of the current script   |
| \$_SERVER['SCRIPT_URI']        | Returns the URI of the current page  |



## 21) Explain \$\_GLOBALS with Example?

- ⇒ \$GLOBALS is a PHP super global variable which is used to access global variables from anywhere in the PHP script (also from within functions or methods).
- ⇒ PHP stores all global variables in an array called \$GLOBALS[index]. The index holds the name of the variable. The example below shows how to use the super global variable \$GLOBALS

## 22) Explain foreach with Example?

foreach use for array print in loop & also convert arr to string

```
foreach($arr as $value)
```

```
{
}
```

## 23) Types of Error?

4 types

1. Fatal Error (Critical error):-An object of a non-existent class, or calling a non-existent function. These errors cause the immediate termination of the script.

2. Notice Error:-These are trivial, non-critical errors. Accessing a variable that has not yet been defined. But they do not termination script.
3. Parse error (Syntax error):-When we make mistake in PHP code like, missing semicolon or any unexpected symbol in code. Stop Script Execution.
4. Warning Error (Most Serious error):-To include() a file which does not exist, but they do not termination script

#### 24) Difference between echo and print()?

1. Speed. There is a difference between the two, but speed-wise it should be irrelevant which one you use. echo is marginally faster
2. Expression. print() behaves like a function where as echo behaves like a statement in that you can do
3. Parameter(s). The grammar is: echo expression [, expression[,expression] ... ] But echo ( expression, expression ) is not valid. So, echo without parentheses can take multiple parameters, which get concatenated

#### 25) What diff between include & require?

The include() and require() statement allow you to include the code contained in a PHP file within another PHP file.

Include : if file not exist : Warning error

Require : if file not exist : Fatal error

#### 26) What diff between include\_once & include ?

The include\_once and require\_once statements will only include the file once even if asked to include it a second time i.e. if the specified file has already been included in a previous statement, the file is not included again.

#### 23) date() function ?

The date() function formats a local date and time, and returns the formatted date string.

date(format, timestamp)

date\_default\_timezone\_set("Asia/Bangkok");

```
<?php
```

```
$date1=date_create("2013-03-15");
```

```
$date2=date_create("2013-12-12");
```

```
$diff=date_diff($date1,$date2);  
echo $diff->format("%R%a days");  
?>
```

24) for future date MKTIME with practical ?

Return the Unix timestamp for a date. Then use it to find the day of that date:

25) what is array & type of array ?

An array is a collection of items stored at contiguous memory locations.

Numeric Arrays

What:An array with a numeric index. Values are stored and accessed in linear fashion.

Associative Arrays

What:An array with strings as index. This stores element values in association with key values rather than in a strict linear index order.

Multidimensional Arrays

What:An array containing one or more arrays and values are accessed using multiple indices

26) define implode() & explode() & in\_array()

```
implode() // convert array variable to string variable  
explode() // convert string variable to array variable  
in_array() // find value in array & use only in if("Hindi",$lag)
```

27) define encryption & decryption function ?

For password enc & dec

**base64\_encode;**

**base64\_decode**

**md5**

**sha1**

28) what is sql Injection & with function & example ?

SQL injection is a code injection technique that might destroy your database. SQL injection is one of the most common web hacking techniques. SQL injection is the placement of malicious code in SQL statements, via web page input.

SQL injection usually occurs when you ask a user for input, like their username/userid, and instead of a name/id, the user gives you an SQL statement that you will unknowingly run on your database.

```
txtUserId = getRequestString("UserId"); /$_REQUEST['userid']
```

```
txtSQL = "SELECT * FROM Users WHERE UserId = " + txtUserId;
```

or

```
real_escape_string($_POST['firstname']);
```

29) what is the header function with example ?

The header() function is a predefined PHP native function. With header() HTTP functions we can control data sent to the client or browser by the Web server before some other output has been sent.

The header function sets the headers for an HTTP Response given by the server. We can do all sorts of things using the header function in PHP like Change page location, set timezone, set caching control, etc...

```
header('location:mypage.php');
```

```
header('refresh:5;mypage.php');
```

```
header('Content-Type: application/pdf');
```

30) difference between session & cookie ?

- Cookies are client-side files that contain user information, whereas Sessions are server-side files that contain user information.
- Cookie is not dependent on session, but Session is dependent on Cookie.
- Cookie expires depending on the lifetime you set for it, while a Session ends when a user closes his/her browser.
- The maximum cookie size is 4KB whereas in session, you can store as much data as you like.
- Cookie does not have a function named unsetcookie() while in Session you can use Session\_destroy(); which is used to destroy all registered data or to unset some

31) What is the default session expired time ?

It depends on the server configuration or the relevant directives `session.gc_maxlifetime` in `php.ini`.

Typically the default is **24 minutes (1440 seconds)**, but your webhost may have altered the default to something else.

=====

32) What is file handling & defining its mode and function ?

When we develop a web application using PHP, quite often we need to work with external files, like reading data from a file or maybe writing user data into file etc. So it's important to know how files are handled while working on any web application.

The `fopen()` function is also used to create a file. Maybe a little confusing, but in PHP, a file is created using the same function used to open files

The first parameter of `fwrite()` contains the name of the file to write to and the second parameter is the string to be written

The first parameter of `fread()` contains the name of the file to read from and the second parameter specifies the maximum number of bytes to read

The `fclose()` function is used to close an open file.

the `feof()` function checks if the "end-of-file" (EOF) has been reached.

The `fgets()` function is used to read a single line from a file.

After a call to the `fgets()` function, the file pointer has moved to the next line.

| Modes | Description |
|-------|-------------|
|-------|-------------|

|   |   |
|---|---|
| r | Open a file for read only. File pointer starts at the beginning of the file |
|---|---|

|    |  |
|----|--|
| w  | Open a file for write only. Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file      |
| a  | Open a file for write only. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist |
| x  | Creates a new file for write only. Returns FALSE and an error if file already exists   |
| r+ | Open a file for read/write. File pointer starts at the beginning of the file   |
| w+ | Open a file for read/write. Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file      |
| a+ | Open a file for read/write. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist |
| x+ | Creates a new file for read/write. Returns FALSE and an error if file already exists   |

33) what is javascript/extesion/external file/syntex & use of javascript ?

JavaScript is mainly used in client side

JavaScript is used in client side and also server side

JavaScript is the Programming Language for the Web.

JavaScript can update and change both HTML and CSS.

JavaScript can calculate, manipulate and validate data.

files save as .js extension & call

```
<script type="text/javascript" src="file.js"> </script>
```

Syntax

```
<script>
```

```
</script>
```

javascript code add in head section and body section

```
=====
```

```
: document.getElementById("demo");
```

Variable/array/operator/loop/function/ func with argument & also know  
html event

Validation Task by ID OR BY FORMS

34) what is jquery/extesion/external file/syntax & use of jquery?

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

The jQuery library contains the following features:

HTML/DOM manipulation

CSS manipulation

HTML event methods

Effects and animations

AJAX

Utilities

Tip: In addition, jQuery has plugins for almost any task out there.

Why jQuery?



There are lots of other JavaScript libraries out there, but jQuery is probably the most popular, and also the most extendable.

Many of the biggest companies on the Web use jQuery, such as:

Google

Microsoft

IBM

Netflix

There are several ways to start using jQuery on your web site. You can:

Method-1

Download the jQuery library from [jquery.com](http://jquery.com)

Downloading jQuery

There are two versions of jQuery available for downloading:

Production version - this is for your live website because it has been minified and compressed

Development version - this is for testing and development (uncompressed and readable code)

Both versions can be downloaded from [jquery.com](http://jquery.com).

The jQuery library is a single JavaScript file, and you reference it with the HTML `<script>` tag (notice that the `<script>` tag should be inside the `<head>` section):

```
<head>
```

```
<script src="jquery-3.5.1.min.js"></script>
```

```
</head>
```

Method-2 Include jQuery from a CDN, like Google

jQuery CDN

If you don't want to download and host jQuery yourself, you can include it from a CDN (Content Delivery Network).

Google is an example of someone who host jQuery:

```
<head>  
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>  
</head>
```

### The Document Ready Event

You might have noticed that all jQuery methods in our examples, are inside a document ready event:

```
<script>  
$(document).ready(function(){  
  
    // jQuery methods go here...  
  
});
```

```
</script>
```

This is to prevent any jQuery code from running before the document is finished loading (is ready).

### What are Events?

All the different visitors' actions that a web page can respond to are called events.

An event represents the precise moment when something happens.

### Examples:

moving a mouse over an element

selecting a radio button

clicking on an element

The term "fires/fired" is often used with events. Example: "The keypress event is fired, the moment you press a key".

Here are some common DOM events:

Mouse Events

Keyboard Events

Form Events      Document/Window Events

click

keypress

submit

load

dblclick

keydown

change

resize

mouseenter // event

hover() // action/function

keyup

focus

scroll

mouseleave

blur

unload

35) Event in javascript & popup?

When users visit your website, they perform various activities such as clicking on text and images and links, hover over defined elements, etc. These are examples of what JavaScript calls events.

Keyboard Events

| Attribute | Value | Description |
|-----------|-------|-------------|
|-----------|-------|-------------|

|            |        |                                     |
|------------|--------|-------------------------------------|
| onkeydown  | script | Fires when a user is pressing a key |
| onkeypress | script | Fires when a user presses a key     |
| onkeyup    | script | Fires when a user releases a key    |

---

### Mouse Events

| Attribute   | Value  | Description  |
|-------------|--------|--|
| onclick     | script | Fires on a mouse click on the element                              |
| ondblclick  | script | Fires on a mouse double-click on the element                       |
| onmousedown | script | Fires when a mouse button is pressed down on an element            |
| onmousemove | script | Fires when the mouse pointer is moving while it is over an element |
| onmouseout  | script | Fires when the mouse pointer moves out of an element               |
| onmouseover | script | Fires when the mouse pointer moves over an element                 |
| onmouseup   | script | Fires when a mouse button is released over an element              |

|              |        |   |
|--------------|--------|---|
| onmousewheel | script | Deprecated. Use the onwheel attribute instead               |
| onwheel      | script | Fires when the mouse wheel rolls up or down over an element |

## Form Events

Events triggered by actions inside a HTML form (applies to almost all HTML elements, but is most used in form elements):

| Attribute     | Value  | Description   |
|---------------|--------|---|
| onblur        | script | Fires the moment that the element loses focus             |
| onchange      | script | Fires the moment when the value of the element is changed |
| oncontextmenu | script | Script to be run when a context menu is triggered         |
| onfocus       | script | Fires the moment when the element gets focus              |
| oninput       | script | Script to be run when an element gets user input          |
| oninvalid     | script | Script to be run when an element is invalid               |
| onreset       | script | Fires when the Reset button in a form is clicked          |

|          |        |   |
|----------|--------|---|
| onsearch | script | Fires when the user writes something in a search field (for <code>&lt;input="search"&gt;</code> ) |
| onselect | script | Fires after some text has been selected in an element   |
| onsubmit | script | Fires when a form is submitted  |

- 1) `alert('only ok button');`
- 2) `confirm('ok & cancel button');`
- 3) `prompt('ok cancel & text box');`

36) what is XML & use of example with example ?

- **Xml** (eXtensible Markup Language) is a markup language.
- XML is designed to store and transport data.
- Xml was released in late 90's. it was created to provide an easy to use and store self describing data.
- XML became a W3C Recommendation on February 10, 1998.
- XML is not a replacement for HTML.
- XML is designed to be self-descriptive.
- XML is designed to carry data, not to display data.
- XML tags are not predefined. You must define your own tags.
- XML is platform independent and language independent.

**Platform Independent and Language Independent:** The main benefit of xml is that you can use it to take data from a program like Microsoft SQL, convert it into XML then share that XML with other programs and platforms. You can communicate between two platforms which are generally very difficult.

The main thing which makes XML truly powerful is its international acceptance. Many corporation use XML interfaces for databases, programming, office application mobile phones and more. It is due to its platform independent feature.

```
<?xml version="1.0" encoding="UTF-8"?>

<note>

  <to>Tove</to>

  <from>Jani</from>

  <heading>Reminder</heading>

  <body>Don't forget me this weekend!</body>

</note>
```

## The Difference Between XML and HTML

XML and HTML were designed with different goals:

- XML was designed to carry data - with focus on what data is
- HTML was designed to display data - with focus on how data looks
- XML tags are not predefined like HTML tags are
- 

37) What is ajax javascript/jquery and use of ajax with example ?

Ajax stands for Asynchronous Javascript And Xml. Ajax is just a means of loading data from the server and selectively updating parts of a web page without reloading the whole page.

Basically, what Ajax does is make use of the browser's built-in XMLHttpRequest (XHR) object to send and receive information to and from a web server asynchronously, in the background, without blocking the page or interfering with the user's experience.

Ajax has become so popular that you hardly find an application that doesn't use Ajax to some extent. The example of some large-scale Ajax-driven online applications are: Gmail, Google Maps, Google Docs, YouTube, Facebook, Flickr, and so many other applications.

//ajax code by javascript

```
<script>

function loadDoc()
{
  var xhttp;

  if (window.XMLHttpRequest) // create object for request
  {
```

```

// code for modern browsers
xhttp = new XMLHttpRequest();
} else {
// code for IE6, IE5
xhttp = new ActiveXObject("Microsoft.XMLHTTP");
}

//The readyState property holds the status of the XMLHttpRequest.
//The onreadystatechange property defines a function to be executed when the readyState changes.
//The status property and the.statusText property holds the status of the XMLHttpRequest object.
//readyState==4: request finished and response is ready
//status 200: "OK"

xhttp.onreadystatechange = function()
{
    if(xhttp.readyState==4 || xhttp.status==200)
    {
        //The.responseText property returns the server response as a JavaScript string, and
        you can use it accordingly:
        document.getElementById("demo").innerHTML=this.responseText;
    }
}

//To send a request to a server, we use the open() and send() methods of the XMLHttpRequest
object:

xhttp.open("GET", "data.php", true);
xhttp.send();

=====

//jquery Ajax
// jquery ajax ;
<script>
function getdata(str)
{

```



```

$.ajax({
    type: "POST",
    url: "ajax_data",
    data:"btn="+str,
    success: function(data)
    {
        $("#search_Id").html(data) ;
    }
});
}
</script>

```

38) What is OOPS and its features ?

From PHP5, you can also write PHP code in an object-oriented style.

OOP stands for Object-Oriented Programming.

Procedural programming is about writing procedures or functions that perform operations on the data, while object-oriented programming is about creating objects that contain both data and functions.

Object-oriented programming has several advantages over procedural programming:

- OOP is faster and easier to execute
- OOP provides a clear structure for the programs
- OOP helps to keep the PHP code DRY "Don't Repeat Yourself", and makes the code easier to maintain, modify and debug
- OOP makes it possible to create full reusable applications with less code and shorter development time

Example :

Class === Fruits / car

Object ===== apple,banana,orange / volvo audi ford

Class :

Define a Class

A class is defined by using the class keyword, followed by the name of the class and a pair of curly braces ({}). All its properties and methods go inside the braces:

### Define Objects

Classes are nothing without objects! We can create multiple objects from a class. Each object has all the properties and method1

s defined in the class, but they will have different property values.

Objects of a class are created using the new keyword.

```
<?php
class abc
{
    public $a=10;
    public $b=30;
    function sum()
    {
        echo $sum=$this->a+$this->b;
    }
}
$obj= new abc;
$obj->sum();
?>
```

## **oops Features :**

**Class**

**Object**

**Encapsulation**

**Inheritance / Reusability**

**Access Modifier / Visibility**

**Abstraction**

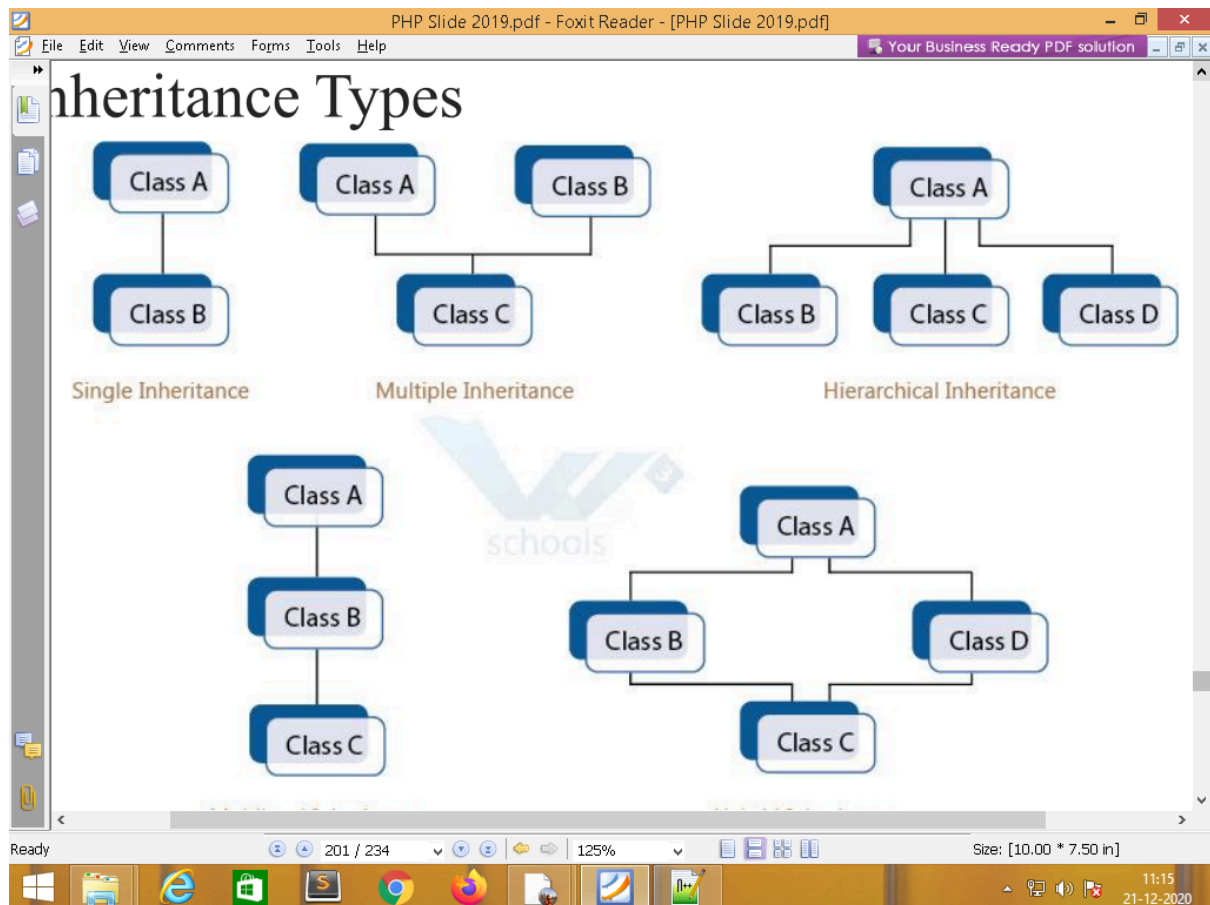
**interface**

## Constructor & Destructor

39) what is inheritance & its type ?

Inheritance is the process of creating a new Class, called the **Derived Class** , from the existing class, called the **Base Class** . The Inheritance has many advantages, the most important of them being the reusability of code. Rather than developing **new Objects** from scratch, new code can be based on the work of other developers, adding only the new features that are needed. The reuse of **existing classes** saves time and effort.

1. Single Inheritance
2. Multiple Inheritance // not extends multiple class
3. Hierarchical Inheritance
4. Multilevel Inheritance
5. Hybrid Inheritance (also known as Virtual Inheritance)



40) what is an access modifier ? define the difference between private & protected ?

Access Modifiers (Access Specifiers) describes the scope of accessibility of an Object and its members. We can control the scope of the member object of a class using access specifiers

- 1) Public Access level is not restricted. available out of class
- 2) Protected : available in own class and child (inheritance class)
- 3) Private Access level is limited and available only in its own class.

41) What is Polymorphism & diff between overloading & overriding ?

*According to the Polymorphism principle, methods in different classes that do similar things should have the same name.*

=>Overloading Same method name with different signature/different argument, since PHP doesn't support method overloading concept

=> Overriding When same methods defined in parents and child class with same signature/same argument

42) what is the final keyword & final function ?

PHP introduces the final keyword, which prevents child classes from overriding a method by prefixing the definition with final. If the class itself is being defined final then it cannot be extended.

43) what is a constructor & destructor with example ?

In object oriented programming terminology, constructor is a method defined inside a class that is called automatically at the time of creation of object. Purpose of a constructor method is to initialize the object. In PHP, a method of special name **\_\_construct** acts as a constructor.

=> class name & function name are same thats called constructor

In PHP, destructor method is named as **\_\_destruct**. During shutdown sequence too, objects will be destroyed. Destructor method doesn't take any arguments, neither does it return any data type

44) what is an abstract class in PHP?

An abstract class or method is defined with the abstract keyword:

An object of an abstract class can't be made.

An abstract class is a class that contains at least one abstract method. An abstract method is a method that is declared, but not implemented in the code.

When inheriting from an abstract class, the child class method must be defined with the same name, and the same or a less restricted access modifier. So, if the abstract method is defined as protected, the child class method must be defined as either protected or public, but not private.

So, when a child class is inherited from an abstract class, we have the following rules:

The child class method must be defined with the same name and it redeclares the parent abstract method

The child class method must be defined with the same or a less restricted access modifier

The number of required arguments must be the same. However, the child class may have optional arguments in addition

```
<?php
```

```
abstract class ParentClass {  
    abstract public function someMethod1();  
    abstract public function someMethod2($name, $color);  
}
```

```

abstract public function someMethod3() : string;
}

```

45) what is the interface in PHP?

Interfaces are declared with the interface keyword:

Interfaces are characterized similarly as a class, however, only the interface keyword replaces the class phrase in the declaration and without any of the methods having their contents defined.

Interfaces allow you to specify what methods a class should implement.

### PHP - Interfaces vs. Abstract Classes

Interfaces are similar to abstract classes. The difference between interfaces and abstract classes are:

Interfaces cannot have properties, while abstract classes can

All interface methods must be public, while abstract class methods is public or protected

All methods in an interface are abstract, so they cannot be implemented in code and the abstract keyword is not necessary

Classes can implement an interface while inheriting from another class at the same time

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Talking:

| Interface  | Abstract class   |
|--|--|
| Interface support multiple inheritance   | Abstract class does not support multiple inheritance                               |
| Interface doesn't contain Data Member  | Abstract class contains Data Member  |
| Interface doesn't contain Constructors   | Abstract class contains Constructors   |
| An interface contains only incomplete member (signature of member)                   | An abstract class contains both incomplete (abstract) and complete member          |
| An interface cannot have access modifiers by default everything is assumed as public | An abstract class can contain access modifiers for the subs, functions, properties |
| Member of interface can not be Static  | Only Complete Member of abstract class can be Static                               |

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Ready 209 / 234 You are screen sharing Stop Share 16:02 20-01-2021

46) what is scope resolution (::) in PHP ?

The Scope Resolution Operator (also called Paamayim Nekudotayim) or in simpler terms, the double colon, is a token that allows access to static, constant, and overridden properties or methods of a class.

When referencing these items from outside the class definition, use the name of the class.

47) define diff between static & const keywords in PHP ?

Static properties can be called directly - without creating an instance of a class.

Static properties are declared with the static keyword:

To access a static property use the class name, double colon (::), and the property name:

ClassName::staticMethod()/static\_variable;

```
<?php
```

```
class greeting {  
    public static function welcome() {  
        echo "Hello World!";  
    }  
}
```

```
// Call static method
```

```
greeting::welcome();
```

```
?>
```

Const

Constants are one type of variable which we can define for any class with keyword const.

Value of these variables cannot be changed anyhow after assigning.

Class constants are different from normal variables, as we do not need \$ to declare the class constants.

If we are inside the class then values of the constants can be get using self keyword, but accessing the value outside the class you have to use Scope Resolution Operator.

```
<?php
```

```
    //create class
```

```
    class javatpoint
```

```
    {
```

```
        //create constant variable
```

```

        const a= "This is const keyword example";
    }
//call constant variable.

echo javatpoint::a;

?>

```

#### 48) What is magic function in PHP?

Magic methods in PHP are special methods that are aimed to perform certain tasks. These methods are named with double underscore (\_\_) as prefix. All these function names are reserved and can't be used for any purpose other than associated magical functionality. Magical method in a class must be declared public. These methods act as interceptors that are automatically called when certain conditions are met.

Following magical methods are currently available in PHP

```

__construct(), __destruct(), __call(), __callStatic(), __get(), __set(), __isset(), __unset(), __sleep(),
__wakeup(), __serialize(), __unserialize(), __toString(), __invoke(), __set_state(), __clone() and
__debugInfo()

```

#### 49) what is type Hinting in PHP?

In simple word, type hinting means providing hints to function to only accept the given data type.

In technical word we can say that Type Hinting is method by which we can force function to accept the desired data type.

In PHP, we can use type hinting for Object, Array and callable data type.

Since PHP 5 you can use type hinting to specify the expected data type of an argument

in a function declaration. When you call the function, PHP will check whether or not

the arguments are of the specified type. If not, the run-time will raise an error

and execution will be halted.

```

<?php

function startParty(array $guests)
{
    print_r($guests);
}

startParty(array("Susan Foreman", "Sarah Jane Smith", "Rose Tyler", "Donna Noble"));

```



?>

50) What is trait in PHP ?

PHP only supports single inheritance: a child class can inherit only from one single parent.

So, what if a class needs to inherit multiple behaviors? OOP traits solve this problem.

Traits are declared with the trait keyword: as class

To use a trait in a class, use the use keyword: // for inheritance

Traits are used to declare methods that can be used in multiple classes. Traits can have methods and abstract methods that can be used in multiple classes, and the methods can have any access modifier (public, private, or protected).

```
<?php
```

```
trait message1 {
```

```
public function msg1() {
```

```
    echo "OOP is fun! ";
```

```
}
```

```
}
```

```
class Welcome {
```

```
    use message1;
```

```
}
```

```
$obj = new Welcome();
```

```
$obj->msg1();
```

```
?>
```

51)What is PHP MVC framework?

PHP MVC is an application design pattern that separates the application data and business logic (model) from the presentation (view). MVC stands for Model, View & Controller.

The controller mediates between the models and views.

Think of the MVC design pattern as a car and the driver.

The car has the windscreens (view) which the driver (controller) uses to monitor traffic ahead then speed or brake (model) depending on what he sees ahead.

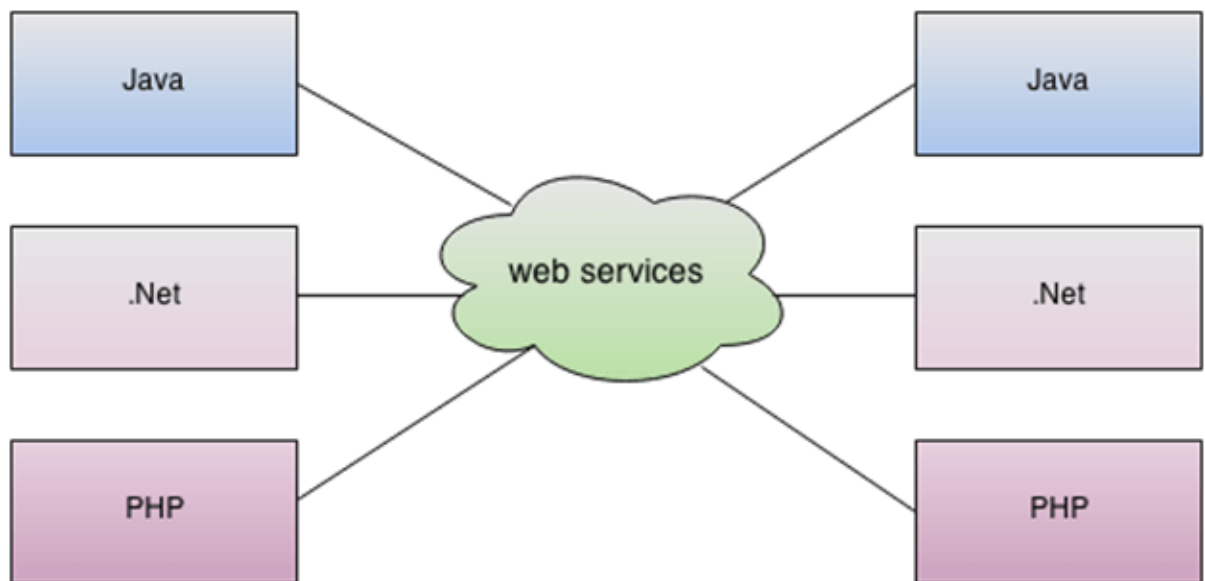
Why use PHP MVC Framework?

- PHP MVC Frameworks simplify working with complex technologies by;
  - Hiding all the complex implementation details
  - Providing standard methods that we can use to build our applications.
  - Increased developer productivity, this is because the base implementation of activities such as connecting to the database, sanitizing user input etc. are already partially implemented.
  - Adherence to professional coding standards

52) What are web services ?

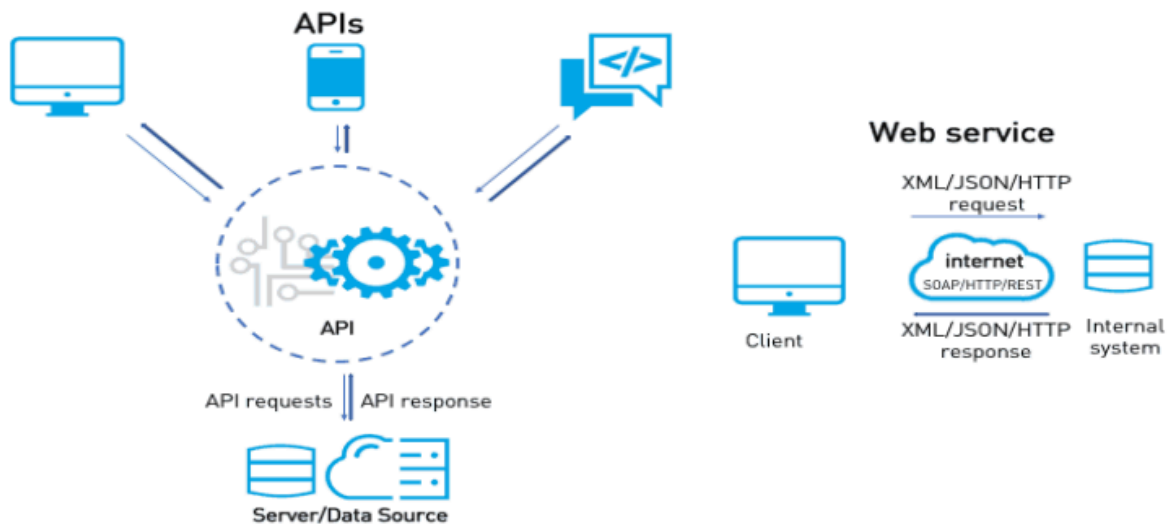
A **Web Service** is can be defined by following ways:

- It is a client-server application or application component for communication.
- The method of communication between two devices over the network.
- It is a software system for the interoperable machine to machine communication.
- It is a collection of standards or protocols for exchanging information between two devices or application.



Let's understand it by the figure given below:

As you can see in the figure, Java, .net, and PHP applications can communicate with other applications through web service over the network. For example, the Java application can interact with Java, .Net, and PHP applications. So web service is a language independent way of communication.



## Types of Web Services

There are mainly **two types** of web services.

web-based/website application using the **REST, SOAP**, WSDL, and UDDI over the network. For example, Java web service can communicate with .Net application.

53) define web services platform ?

SOAP Web Services

data transfer in **xml files**

SOAP stands for **Simple Object Access Protocol**. It is a XML-based protocol for accessing web services.

SOAP is a W3C recommendation for communication between two applications.

SOAP is XML based protocol. It is platform **independent and language independent**. By using SOAP, you will be able to interact with other programming language applications.

=====

## Restfull Web Services API Application Programming Interface

RESTful Web Services are basically REST Architecture based Web Services. In REST Architecture everything is a resource.

**RESTful web services are lightweight**, highly **scalable** and **maintainable** and are very **commonly used** to create APIs for web-based applications.

54) Define **Json\_encode** & **json\_decode** func with example ?

If you need to retrieve specific information from the server and make it appear on your website, you will probably be using JSON. The name of JSON stands for JavaScript Object Notation. It is based on JavaScript, so having some basic knowledge of it would be greatly welcome here. JSON also uses JavaScript syntax.

```
$arr=array("name"=>"Rajesh", "age"=>31); arr to json
```

```
json={ "name": "Rajesh" , "age": "31" }
```

JSON is anonymous data that can be translated in PHP variables.

Arrays can be converted to JSON format.

JSON is commonly used for reading data out of a web server and displaying it on a website.

There are integrated functions to manipulate JSON. Most important of them are PHP

**json\_encode()** and **PHP json\_decode()**.

55) what is framework & its example ?

PHP frameworks streamline the development of web applications written in PHP by providing a basic structure for which to build the web applications. In other words, PHP frameworks help to promote rapid application development (RAD), **which saves you time, helps build more stable applications, and reduces the amount of repetitive coding for developers**. Frameworks can also help **beginners to build more stable apps by ensuring proper database interaction and coding on the presentation layer**. This allows you to spend more time creating the actual web application, instead of spending time writing repetitive code.

- 1. Laravel
- 2. CodeIgniter
- 3. Symfony
- 4. Laminas Project

- 5. Phalcon
- 6. CakePHP
- 7. Yii
- 8. FuelPHP

**CodeIgniter is a powerful PHP framework with a very small footprint, built for developers who need a simple and elegant toolkit to create full-featured web applications.** CodeIgniter was created by EllisLab, and is now a project of the British Columbia Institute of Technology.

**For building a web application you spend a lot of time in writing the same code again and again. Frameworks provide you a starting block and minimize the amount of code needed to build a website.**

CodeIgniter is PHP driven framework but it's not a PHP substitute. Diving into CodeIgniter doesn't mean you are leaving PHP behind. PHP is a server-side scripting language for building dynamic web-based applications.

Why you should use CodeIgniter

- If you need a framework **with a small footprint.**
- You need a **high performance.**
- Need a framework which requires **zero configurations.**
- Need a framework which **doesn't use a command line.**
- Need a framework which **doesn't require adhering to restrictive coding rules.**
- To get a **simplified code structure.**

55) what is CMS & its example ?

56) Explain CodeIgniter framework & its features ?

Open Source PHP web Apps Framework for use in building dynamic web sites based on the popular Model – View –Controller development pattern with PHP.

Free for use and Develop & SUPPORT mvc

CodeIgniter is faster and lighter compared to other PHP frameworks

CodeIgniter is the foundation of the new version of ExpressionEngine CMS developed by EllisLab.

10.5x faster than CakePHP, 2.9x faster than Zend Framework (similar configurations / similar functionality )

SEO friendly URLs CodeIgniter automatically generates SEO friendly URLs

This is easily overridden: regular expression pattern matching to point to controller/method and pass variables Infinitely extensible.

For building a web application you spend a lot of time in writing the same code again and again. Frameworks provide you a starting block and minimize the amount of code needed to build a website.

CodeIgniter is PHP driven framework but it's not a PHP substitute. Diving into CodeIgniter doesn't mean you are leaving PHP behind. PHP is a server-side scripting language for building dynamic web-based applications.

Why you should use CodeIgniter

- If you need a framework with small footprint.
- You need a high performance.
- Need a framework which requires zero configurations.
- Need a framework which don't use command line.
- Need a framework which doesn't require adhering to restrictive coding rules.
- To get a simplified code structure.

57) Explain CodeIgniter library & helper ?

The essential part of a CodeIgniter framework is its libraries. **It provides a rich set of libraries, which indirectly increase the speed of developing an application.** The system library is **located at system/libraries**. All we need to do is to load the library that we want to use. The library can be loaded as shown below –

```
$this->load->library('email');
```

**Where class name is the name of the library that we want to load.** If we want to load multiple libraries, then we can simply pass an array as argument to library() function as shown below –

# helper

In CodeIgniter there are helpers **which are there to help you with different tasks**. Every **helper file is a collection of functions aiming towards a particular role**. Some of the helpers are 'file helpers' which help you to deal with the file, 'text helpers' to perform various text formatting routines, 'form helpers' to create form element, 'cookie helpers' set and read cookies, 'URL helpers' which assist in creating links, etc.

Helpers are not written in Object Oriented format, instead they are simple, procedural functions, independent of each other.

To use helper files, you need to load it. Once loaded it is globally available to your controller and views. They are located at two places in CodeIgniter. CodeIgniter will look first for a helper in the application/helpers folder and if not found there then it **will go to system/helpers folder**.

**1. `$this->load->helper('file_name');`**

=====

Rajesh Sir : Practical Task

=>html/css3/Bootstrap Theme Integration

=> Perform job Task

\* user side

Register country/state/city ajax form submit / with image upload

register validation form // by javascript or jquery

login with session & cookie

view profile with session name / logout session Unset

Edit profile & update it.

\* admin side

view all data with manage like add/upd/del

ajax search

multi-delete

mail code in mail / copy-paste

=====

=> file handling / xml task as per Rajesh sir given you ?

=> download file task / header function

=> Same above task in Codeigniter

=====

Rajesh Sir HR Practice :

=>create your own word file with que-ans.

=>reference : indiabix

<https://www.indiabix.com/hr-interview/questions-and-answers/>