

*Department of Computer Science*  
*Gujarat University*



*Certificate*

Roll No: 36

Seat No: \_\_\_\_\_

This is to certify that Mr./Ms. PREKSHA K. SHETH student of MCA Semester – II has duly completed his/her term work for the semester ending in June 2020, in the subject of WEB APPLICATION AND DEVELOPMENT towards partial fulfillment of his/her Degree of Masters in Computer Applications.

Date of Submission

**2nd - JULY - 2020**

Internal Faculty

Head of Department

Department Of Computer Science  
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MCA - II

## **Subject:** - Web Application Development

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Sub :- WAS.

- Assignment :- 1

Q. Write the full form of PHP. Which version of PHP you are using?

Ans - PHP:

PHP's full form is Hypertext Preprocessor.

- I am using PHP version 7.0 which is released on 3rd Dec. 2015.
- PHP is Hypertext Preprocessor earlier is called personal home page.
- PHP is HTML embedded Server Side Scripting language designed for web development.
- PHP is also used for general purpose programming language.
- It was created by Rasmus Lerdorf in 1994. but appeared in market in 1995.

Q. List and explain strength of PHP.

→ These are the strength of PHP.

1. Performance:

PHP is very fast using a single inexpensive server you can serve millions of hits per day.

2. Scalability:

• PHP has "shared nothing" architecture this means that you can effectively and

cheaply implement horizontal scaling with large number of commodity servers.

### 5. Database Integration :

PHP has native connection available to many database systems.

In addition to MySQL you can directly connect to PostgreSQL, Oracle, DB2, Firebird.

### 6. Built In Libraries

Because PHP was designed for use in the web, it has many built-in functions for performing many useful web related tasks.

You can generate image on the fly, connect to web service and other network services, parse XML, send email with cookie.

### 7. Cost:-

PHP is Free, you can download the latest version any time.

### 8. Object Oriented support:-

PHP version 5 has well designed object oriented feature.

Q.3. List and explain strengths of MySQL.

Ans: MySQL is free to use, open source database that facilitates effective management of database by connecting to them. Software.

### 1. Data Security:

MySQL is globally renowned for being the most secure and reliable database management system used in popular web application like WordPress, Drupal, Joomla, Facebook and Twitter.

The data security and support for transactional processing that accompany the recent version of MySQL can greatly benefit any business especially if it is an e-commerce business that involves frequent money transfers.

### 2. Performance:

MySQL is undeniably fast you can see the developer's benchmark page at <http://MySQL.com/whyMySQL/benchmark>.

### 3. Low cost:

MySQL is available at no cost under an open source license or at low cost under a commercial licence.

#### 4. Easy to use:

Most modern database we see. If you have used another RDBMS, you should have no trouble adapting to this one.

#### 5. Portability:

MySQL can be used in many different platforms, Unix system as well as windows.

#### 6. Source code:

As with PHP, you can obtain and modify source code for MySQL. This point is not important to most users most of the time, but it provides you with excellent piece of mind and giving you option in emergency.

#### 7. Availability of support:

Not all open source product have a parent company offering support, training, consulting and certification.

Q4 List and explain various PHP tag style which is most recommended ?

Ans: The PHP code in preceding example began with

< ?php

PHP syntax

?>

This is similar to all HTML tags because that all the begin with (<) symbol and ends with (>) symbol.

There are actually four different types of PHP tag.

### 1. XML style:

```
<?php echo '<p>order processed </p>'; ?>
```

- This is the ~~old~~ tag style that we used in this book. It is preferred PHP tag style.
- This tag style can be used with extensible markup language (XML) document.

### 2. Short style:

```
<? echo '<p>order processed </p>'; ?>
```

- It is simple and it follows the style of Standard generalized markup language (SGML) processing instruction.

### 3. Script Style:

```
<script language='PHP'>
```

```
echo '<p>order processed </p>';
```

```
</script>
```

- this style is longer and familiar to JavaScript or VBScript.  
you must be use if you are using HTML editor that gives you problems with other tag: style.

#### 4. ASP Style:

- <% echo' (ps) order processed </ps>'%>
- this tag style is same as used in Active Server page.
- you probably have no reason to use this style of tag unless you are using an editor that is general toward ASP.
- I recommended style is XML because the server administrator for convert be from ASP so you can guarantee it will executable on all servers. which is especially important if you are writing application that may be used on different installations.

Q5 what do you mean by variables? write the syntax for defining variables.

Ans:-

Variables is nothing, it is just name at the memory location. A variable is simply a container.

⇒ Rules:-

- Variable in PHP starts with a dollar (\$) sign followed by the name of variable.
- The variable name must ~~not~~ begin with a letter or underscore character.
- A variable name can contain only numeric character and underscore (-, \_ , @, # - )
- A variable name should not contain space.

Q.6 List the main data types provided by PHP.

→ Variables can store data of different types and different data types can do different things.

⇒ List of data types:

String.

Integer.

Float.

Boolean.

Array.

Object.

Null.

Resource.

→ In this data type has two special data type are also available: Null and Resource. Variable that have not been given value have been unset or have been given the \$.

Q4 Explain == and === operator with eg.

(i) == operator

The == operator enables you to test whether two values are equal.

`$a == $b`

To test whether the values stored in \$a and \$b are same. The result returned by this expression is true and false.

(ii) === operator

- Name of the (==) operator is identical.
- It returns the boolean value.
- It checks the value of two variables - are same and also checks the datatype is same.
- If datatype and value are same of both variable it returns true otherwise it returns false.

Eg: <?php

`$X = 100 ;`

`$Y = 100 ;`

var\_dump (\$x == \$y);  
echo var\_dump;

9)

- It returns false because the value of x is 100 and its datatype is float and the value of y is also 100 but its datatype is string.

Q.8 Explain the use of isset and empty function

Ans:-

(ii) isset():  
It determine the variable is declared and it is not null.

→ Syntax:

isset(mixed \$var[mixed \$---])

Determine if a variable is considered set this means if a variable is declared and set the not NULL value.

- If multiple parameter are supplied then isset() will return true if and only if the parameters are considered set evaluation goes from left to right and stops as soon as an unset variable is encountered.

```
eg: <?php  
    $var = '';  
    if (isset ($var))  
        ?>  
        . echo "This is set" ;  
    ?>  
    $a = "test" ;  
    $b = "another test" ;  
    var_dump (isset ($a)) ;  
    var_dump (isset ($a, $b)) ;  
    unset ($a) ;  
    var_dump (isset ($a)) ;  
    var_dump (isset ($a, $b)) ;  
    $foo = NULL ;  
    var_dump (isset ($foo)) ;  
?>
```

=) empty():

It determines the value of variable  
is empty or not.

Syntax:

empty(mixed \$var): bool.

A variable is considered empty if it  
does not exist or its value equals  
false empty() does not generate  
warning.

Q: <?php  
\$var = 0;  
if (empty(\$var))  
{  
 echo '\$var is either empty or not set';  
}  
if (isset(\$var))  
{  
 echo '\$var is set';  
}

Q: what choices you have to make when opening a file.

→ for open the file by using fopen(), in this case you open the file for reading only so you have use mode 'rb'.

\$fp = fopen("\$document\_root/.../orders/orders.txt", "rb");

→ list and explain various file modes.

Mode : Modename Meaning .

1. r (r) : reads : opens the file for reading begining from the start of the file.

2. `w` write open file for writing.  
    • file pointer set at beginning of the file.
3. `a` append open file for appending only starting from end of the existing contents. If file does not exists it creates the file.
4. `x` cautious create a new file for write only return false and an error if file already exists.
5. `rt` `r+` Read : opens the file in read / write mode. file pointer starts at the beginning of the file.
6. `wt` `w+` write : opens the file in read / write mode. If the contents are present in the file it will be erased and write new content from the starting.
7. `at` `append` opens the file for Read / write mode. If the content is present in the file it sets the pointer to end of the file and write end of the file.

8. It creates a new file for read / write with. Return false and errors if file does not exist.

Q. 10) List and explain various flock() operation values.

Ans- flock()

It is used for lock and release a file.

Syntax

It requires specifies an open file to lock or release.

BLOCK:

It's optional. Set to 1. Block other process while locking.

Eg:- <?php

```
$file = fopen("test.txt", "r");
```

```
if (flock($file, LOCK_EX))
```

{

```
    fwrite($file, "Add some text in the file");
    flush($file);
    flock($file, LOCK_UN);
```

}

else {

```
    echo "Error in locking the file";
```

```
    fclose($file);
```

?>.

## Assignment 8-2

Ques 8.1

Q.1 what do you mean by array? explain with example various ways to define array in PHP?

Ans: Array is datatype in PHP

- Array is datatype which can store multiple items of same datatype or different type.
- The items in array is known as element
- You can create an array in single statement or multiple statement as per requirement.

1. Create array using single statement.

\$arrayname = array(value1, value2, value3...)

2. Create array using multiple statement.

a. \$arrayname = array();

b. \$arrayname[index] = value;

example:

\$name = array();

\$name[0] = 'Audi';

\$name[1] = 'Maruti';

\$name[2] = 'Hyundai';

\$names = array("Audi", "Maruti", "Hyundai")

- echo '<?php \$name[2]; ?>';  
- It will display 10counti.

To add an element at the end of array  
Syntax \$array-name[] = value;

Q.2 what do you understand by regular expression? what are two main techniques to implement expression.

Ans: Regular expression are nothing more than a sequence of patterns of character it set. They provide the function for pattern-matching functionality.

- Using regular expression we can search a particular string inside a another string, you can replace one string by another string into many chances.
- PHP offers functions specific of two sets regular expression function, each corresponding to a certain type of regular expression.  
you can use any term based on your comfort.
- DOSIX Regular expression
- PERL Style Regular expression.

Q.3 Explain preg\_match with its prototype and example.

Ans

preg\_match()

This function is used to perform a pattern match on a String. It returns true if a match is found and false if a match is not possible.

#### \* Function Syntax:

```
<?php  
functionname('pattern', subject);  
is
```

#### → Here:

- "functionname()" is either preg-match, preg-split or preg-replace.
- "/" --- "/" the forward slashes denote the beginning and end of our regular expression.

#### \* PHP Preg-Match

```
eg: <?php  
$word = "my name is Neel";  
if (preg-Match("/Neel/", $my-word));  
{  
    echo "the word contains Neel";  
}  
else  
{  
    echo "the word is not contain Neel";  
}  
?>
```

Q.11 List the meaning of posix character class.

- \* class matches
- [:alnum:] Alphanumeric character
- [:alpha:] Alphabetic character
- [:lower:] Lowercase letters
- [:upper:] Uppercase letters
- [:digit:] Decimal digit
- [:xdigit:] Hexadecimal digit
- [:punct:] punctuation
- [:blank:] Tab and spaces
- [:space:] whitespace character
- [:cntrl:] control characters
- [:print:] All printable character
- [:graph:] printable char, excluding space

→ A character class matches a single character in the subject, the character must be in the set of characters defined by the class, unless the first character in a class circumflex.

Q5 list the Meaning of special characters used in POSTX regular expression outside square brackets.

Ans:- These many Special character are used in regular expression.

Character	Meaning
\b	it denotes (character)
\d	it denotes (character)
\t	it denotes (character)
\w	it denotes (character)
\\$	it denotes (character)
\x{ }	it denotes (character)

eg. <?php

```
$ regex = "/1.1/"; // regular exp.  
$ ip = "194.64.9.670"; // delicate string  
$ output = preg_split($regex, $ip);  
echo "$output[0] <br>";  
echo "$output[1] <br>";  
echo "$output[2] <br>";  
echo "$output[3] <br>";
```

?>

→ Output

194

64

9

670

Q) 6 what is the difference between require and include function.

Ans: include()

The include a file using include() fun, you simply call the function and insert the file path as a parameter.

Syntax:

```
include('filename');
```

⇒ require();

usage of require() function is same as the include function is in the way they handle errors.

- If the include file can't be located the include() function will still display the rest of the pages (as well as error). The require function on the other hand it won't display the rest of page.

Q 4

Explain Variable Scope with appropriate example.

Ans:-

The term scope refers the place within a script where a particular variable is visible.

- Built-in Super global Variable are visible anywhere within a script.
- Constant are declared are always globally that is they can be used inside or outside the function.

Static variables:

It is the characteristics of PHP to delete the variable once it completes its execution and the memory is freed; But sometimes we need to store the variable even after the completion of function execution. To do that's this we use static keyword and the variables are then called as static variables.

Q8 Explain the following OOP concepts. In your words.

(ans) 1) Object :

Object is an instant of class. Object created from the class. Many objects created from one class.

2) Class :

Class is considered as programmer define data type. A class is blueprint or prototype of a object.

Object can't create without class.

3) Polymorphism:

Polymorphism is Greek word. The meaning of poly in greek is much/more and morph means form / shape. That means polymorphism is an ability to use a single function in many ways different upon the usage.

Q.9 what do you mean by overriding?  
 How you can make a method which cannot be overridden?

Ans:-

Function overriding is same as other OOPS programming language.

- In function overriding, both parent and child classes should have same function name with same number of arguments.
- It is used to replace parent method in child class.
- The purpose of overriding is to change the behaviour of parent class method.
- The two methods with the same name and same parameter is called overriding.

<?php

class p {

function name() {

echo "parent";

}

class c extends p {

function name() {

echo "child";

}

\$ p = new p;

\$ c = new c;

\$ p -> name();

\$ c -> name();

4)

{ output

parent  
child.

Q.10 why you create abstract class and abstract method.

- An abstract class is a class which cannot be used to create an object.
- An abstract class is used to create a superclass which can be inherited by other classes but an object from superclass cannot be created.
- An abstract method is a method which has only method name and parameters(s) implements the method has defined but it's cannot have implementation.
- An abstract method can only defined in abstract class.
- An abstract class can have abstract and non-abstract method.

## Assignment : 3

Sub: C.W.D.

Q. Explain in brief with example of MySQL.

### (i) Tables:

Relational database are made of relations. More commonly called tables.

- Table is exactly what it sounds to a table of data. If you are used an electronic spreadsheet you are hence abbreviately used at table.

### (2) Columns:

Each column in the table has unique name and contains different data additionally. each column has customer id, name, address etc.

columns are sometimes called field or attributes.

### (3) Rows:

each row in the table represent different customer because of the table for most each row has the same attributes.

- Row is also called record or tuples.

### (1) Values:

each row consist of set of individual value that correspond to column each value must have data type specified by its column.

### (2) Key:

- The identifying column in a table is called the key or primary key.
- A key can also multiple columns.
- The relationship database items for this relationship is foreign key.

### (3) Schema:

The complete set of table design for database is called the database schema.

### (4) Relationship:

Foreign key represents a relationship between data into two tables.

The classified according to the number of elements of each side of the relationship. It can be one-to-one, one-to-many and many-to-many.

Q.2

What do you mean by anomalies? List various anomalies in a relations.

What you have to do reduce anomalies.  
Ans: There are different types of anomalies  
can occur in referenced relation  
which can be discussed as:

⇒ There are 2 tables: STUDENT and COURSE

(i) Insertion anomaly:

If a tuple is inserted in referencing relation and referencing attribute value of is not present in referenced attribute, it will not allow inserting in referencing relation.

Eg: If you entered stud\_id-7 in course  
but that student is not present  
in the student table it is insertion  
anomaly.

(ii) Deletion and update anomaly:

- If a tuple is deleted and updated  
referenced relation and referenced  
attribute value is used by referencing  
attribute in referenced relation, it will  
not allow deleting the tuple from  
referenced relation too.

Eg: If we try to delete a record from  
student table with stud\_id, it will  
not allow.

### (i) ON DELETE / UPDATE SET NULL:

- If a tuple is updated from referenced attribute value is used by referencing attribute in referencing relation it will delete / update the tuple from referenced relation and set the value of referencing attribute to NULL.

### (ii) ON DELETE / UPDATE CASCADE:

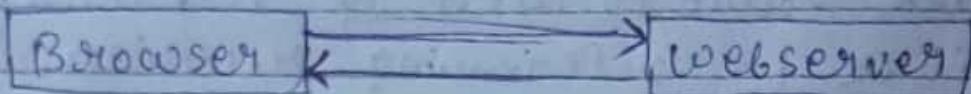
- If a tuple is deleted or updated relation and referenced attribute value is used by referencing attribute in referencing relation. it will delete / update the tuple from referenced relation and referencing relation as well.

## Q.3 Draw and explain web database architecture.

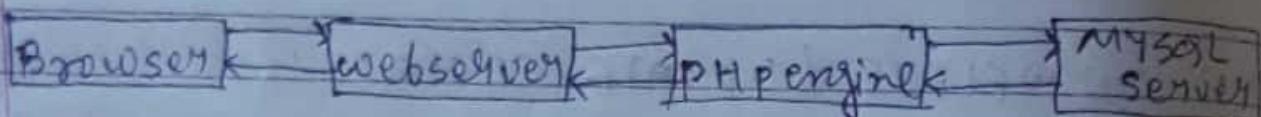
Ans:- web application is a client / server architecture in typical web application client / server architecture consists of two objects (i) web browser and  
(ii) web server

web browser and web servers communicate via a communication link generally internet or through HTTP protocol. The web server

Sends the response on the browser this architecture is used a server sends static web pages, which following figure shows, the simple client / server couch.



→ following figure shows the client / server architecture which is used database.



→ The typical web database application consists of following stages.

- using browser, user sends ~~to~~ request to webserver using HTTP.
- web server, receive receives the request and return the file fetch.php the web server passes the file to PHP engine for processing.
- The PHP engine starts processing the script inside the script, there is a command to connect to the database and ~~execute~~ execute the query.
- MySQL server receives the query, process it and send the result back ~~send~~ to PHP engine.
- The PHP engine get the query result.
- The web server send HTML block to the browser.

Q.4 Write the command(s) to give privileges on database Movie to user spiderman.  
 Ans: In MySQL has issue grant command to give privileges.

- MySQL > GRANT ALL PRIVILEGES ON database name TO 'username'@'localhost';
- MySQL > GRANT ALL PRIVILEGES ON Movie TO 'spidermen'@'localhost';

Q.5 List and explain data types in MySQL.

- MySQL supports a number of SQL standard data type in various categories.
- MySQL has numeric type, the DATETIME, The DATE and TIMESTAMP type and string type.

i) MySQL numeric types :

MySQL supports all standard SQL numerical data type which include INTEGER, SMALLINT, DECIMAL AND NUMERIC.

ii) Date and time types :

The MySQL date and time data type as follows:

→ DATE, DATETIME, TIMESTAMP, TIME, YEAR(M).

(iii) String type:

Although the numeric and date type are fun, most often you'll store well be in string format. There were many date types like,

→ CHAR(M), VARCHAR(M), BLOB OR TEXT, ENUM

Q: What is the use of explain statement?  
Ans: Explain is used to obtain query execution plan.

- The explain statement provides information about how MySQL execute statements.
- Explain works with select, delete, insert, replace and update table.
- When explain is used with an explainable statement, MySQL displays information from the optimizer about the statement execution plan. That is MySQL · explain how it would process the statement, including information about how tables are joined in which order.
- Few information about using EXPLAIN obtaining the execution plan information.

Q.7 what are the different types of backup?

→ The three types of backup have different levels of requirements for CPU overhead and disk space.

(i) ~~full~~<sup>different</sup> backup:

Includes all changes to the data since the last full backup. It is faster than full backup, saves storage space on the database server and saves on network traffic when the backup is being transferred to different server.

(ii) full backup:

Includes the complete data from the database.

(iii) An incremental backup:

Includes all changes to data since the last backup. It offers similar advantages over a full backup as a differential backup does, and often to a even greater extent by further decreasing the backup size.

Q.8 Compare various storage engines available for its table is follows in MySQL.

Ans - MYISAM

- INNODB
- MERGE
- MEMORY
- ARCHIVE
- CSV
- FEDERATED

(i) MYISAM :-

MYISAM extends the former ISAM storage engine. The MYISAM tables are optimized for compression and speed. MYISAM tables are also portable between platforms and operating system.

(ii) InnoDB :-

The InnoDB tables fully support ACID compliant and transaction. They are also optimized for performance. InnoDB table supports foreign keys, commit, rollback, row-based operation. The size of an InnoDB table can be up to 6TB.

## (iii) MERGE :

A MERGE engine table is virtual that combines multiple myISAM tables that have a similar structure to one table. The MERGE storage engine is also known as MRG-MYISAM engine. The MERGE tables does not have its own indexes, it uses indexes of the component table inside.

## (iv) MEMORY

The memory tables are stored in memory and use ram indexes so that they are faster than myISAM tables. The lifetime of the data of the memory tables depends on the uptime of database server.

## (v) ARCHIVE :

The archive storage engine allows you to store a large no. of records, which for archiving purpose, into a compressed format to save disk space. The archive storage engine compresses record when it is inserted and decompresses it using the zlib library as it need.

(vi) CSV :

The CSV storage engine stores data in comma separated values file format. A CSV table brings a convenient way to migrate data into non-SQL application such as Spreadsheet Software.

Q.9 what do you mean by transaction? Explain ACID property of transaction.

→ TRANSACTION :

Transaction are mechanism for ensuring database consistency especially in event of power or server crash.

→ properties of transaction.

(1) ATOMICITY :

A transaction should be atomic that is it should either be completely executed or not.

(2) CONSISTENCY :

A Transaction should leave the database in consistent state.

### ③ Isolation :

- uncompleted transaction should not be visible to other user of the database that is until the transaction complete. They should remain isolated.

### ④ Durability :

- once is written in the database a transaction should be permanent or durable.

- A transaction that has been permanently written to the database is said to be committed.

## Q. 10) When you would prefer load data in file?

- > one useful feature of MySQL that we have not discussed in the LOAD DATA INFILE Statement you can use it to load data in from a file it execute very quickly.
- The flexible command has many options but typical usage is something like the following.

## → Syntax:

LOAD DATA INFILE "newbookr.txt" into table books.

The line inserts 4000 data from the file new file books by default after field in the file. Must be separated by tabs and enclosed in single quotation marks and each row must be separated by newline (\n) special character must be accepted slash.

All the characteristics are configurable with the various options of the LOAD statement.

## Assignment - 4

sub: COAD.

Q3. What do you mean by RFCs? Who define it? What is the use of RFCs?

Ans: RFC is Request for comments.

- RFC in information and communication technology, is a type of that document from the technology community.
- An RFC document may come from many bodies including from the (IETF), (IRTF) and Internet Architecture Board (IAB) of independent nations.
- The RFC system is supported by the Internet Society (ISOC)
- The RFC system was invented by Steve Crocker in 1969. to help record unofficial notes on the development of ARPANET.
- Request for comments were produced in a non-refutable document format, but Crocker began to change the format to a refutable one, so that documents can be viewed in devices with restricted size.

Q4. Differentiate the functions of following protocols.

(i) SMTP

Simple Mail Transfer protocol is a standard protocol for sending emails across the internet.

- By default SMTP works on three ports, port 25, port 587, port 465.

### ~ IMAP:

The internet message access protocol is a mail protocol used for accessing email on a remote web server from a local client.

- IMAP and POP3 are two most commonly used internet mail protocols for receiving emails.

IMAP allows simultaneous access by multiple clients, while POP3 assumes that only email is being accessed only from one application.

- This is only IMAP is more suitable for us.

- By default IMAP works on two ports.  
port 143, port 993

### ~ POP3:

post office protocol version 3 is a standard mail protocol to receive emails from a remote server to a local email client.

POP3 stores messages are stored on your local computer; which reduces the space your email account uses on your web browser.

- By default POP3 protocols work on two ports. port 110, port 995.

Q5 write the full form of Jpg, png, gif, gif.

Ans:-

JPG: Joint photoVigraphic group

PNG: Portable Network Graphics

GIF: Graphic Interchange format

WBMP: wireless Bit map

JPH: Joint photographic expert group.

Q6 what do you mean by session?

- Session Tracking is a technique to keep track of user's movement around the website.
- Session tracking is used to maintain the state in web application.
- HTTP is a stateless protocol so once a browser send request to the server, and server responds to the browser, the connection between browser and server.
- cookie is used to store session ID in each browser by default. Then the cookie is passed by the browser to server of each request.
- URL encoding is used to store session ID in the URL of each page in the application when cookie is disabled.

### Q.5. What is cookie?

- In any web application, it is essential to keep track of user as he/she move in a web pages of web application. To keep track of users movement within a web application session and cookies are used.
- cookie ~~produc~~ provides a way for web application and store information in user's web browser and can retrieve the information of cookie everytime as and when the user requests a page.
- cookie can gather data like username, address or credit card number by using stored data, user can skip login and registration data.

**Q.6** only write name and description of the session set cookie params function.  
Ans. To control how session cookie works, session set cookie params function is used. session set cookie params is used to set the parameters of the session cookie.

Session.set\_cookie\_params(lifetime, \$path, \$domain, \$secure, \$httponly)

- where,
- Lifetime is the timespan of session cookie Second in which cookie is live. Default@.

Q) <1.php

```
// start session with custom cookie params.  
$lifetime = 60 * 60 * 24 * 7; // 1 week.  
session_set_cookie_params($lifetime, "/");  
session_start();  
echo "<br>Session is Started <br>";  
$ans = $_COOKIE['PHPSESSID'];  
echo "<br>Value of session cookie is \"$ans\"";  
?>
```

Q) Write only steps to use Session.

A) → 8

- 1 Before you can store any session variables, you must first start up the session.
  - To begin a new session, simply call the PHP `session_start()` function.
  - It will create a new session.
- 2 You can store all your session data as key-value pairs in the `$_SESSION[]` superglobal array. The stored data can be accessed during lifetime of a session.
- 3 If you want to remove certain session data, simply unset corresponding key of the `$_SESSION` associative array, as shown in the following example.

egs <?php

// Starting Session

session\_start();

\$\_SESSION["firstname"] = "Peter";

\$\_SESSION["lastname"] = "parker";

// Removing Session data.

```
if (isset($_SESSION["username"])) {  
    unset($_SESSION["username"]);  
}
```

?>

~~Q. 8~~ Explain the use of following functions

(i) eval

The eval() function in PHP is inbuilt function that evaluates a string as PHP code.

Syntax:

```
eval ($string)
```

eg <?php

\$age = 20;

\$str = 'My age is ' . \$age . ' ;';

echo \$str . 'm' . '

```
eval (" \\$str = \"$str\";");
```

echo \$str . "m" . '

?>

output:

my age is 25.

my age is 20.

(iii) die():

The die() is an inbuilt function in PHP. It is used to print message and exit from the current PHP script. It is equivalent to exit() function in PHP.

eg <?php

```
$site = "www.google.com";  
$open = fopen($site, "r");  
if ($open == false) {  
    die("unable to connect to given site");  
}
```

→ output:-

unable to "given site".

(iv) exit()

- > The exit() function in PHP is an inbuilt function which is used to output a message and terminate the current script.
- The exit() function only terminates the execution of script.

→ <?php

```
$link = "https://www.google.com";  
fopen($link, "r");  
or exit ("unable to establish a  
connection to $link");
```

?;

@

→ unable to establish a connection to  
https://www.google.com.

Q9 List and Explain file upload configuration  
setting with their default value in PHP.

- At the time of PHP installation, PHP is a special file provided as a default configuration file. It's very essential configuration file which controls what a user can or cannot do with the website.
- each time PHP is initialized, the php.ini file is read by system.
- To check file path use the following program.

<?php

```
echo phpinfo();
```

?;

- Input any setting or common parameters of the PHP ini file.

(i) enable safe mode to ON;

its default setting to ON which tells that the content of Echos.

(ii) register\_globals = on;

It's default setting to on whenever PHP is compiled safe mode is most relevant to our use.

(iii) upload\_max\_filesize

This setting is for the Maximum allowed size for uploaded files in the scripts.

(iv) upload\_tmp\_dir = [DIR]

as don't uncomment this settings

5) display\_errors off

This setting will not allow showing errors while PHP project in the specified host.

6) error\_reporting = E\_ALL & ~E\_NOTICE

This setting the default value is E\_ALL & ~E\_NOTICE which shows all errors except notice.

7) auto\_append\_file = [file path]

This setting is done whom we need to automatically includes at the end of every PHP file.

8) auto\_prepend\_file = [file path]

This setting is done when we need to automatically include it at the start of every PHP file.

10) doc-root [DIR]

This setting is done if we want to apply PHP to a portion of our website.

11) file-uploads [ON/OFF]

This flag is set to ON if the file uploads are included in PHP file.

12) mysql.default-host=hostname

This setting is done to connect MySQL default server if no other server host is mentioned.

13) mysql.default-user=username

This setting done to connect MySQL default username, if no other user name is mentioned.

Q.10 list the point you should consider when performing file upload.

→ In a web application, generally it is required to upload a file to the web server.

- The file can be text file, image file, music file, video file, XML file etc.
- In WAMP 2.5 installation the maximum size for file upload is 2MB.

- To upload a file we create a GUI based using HTML we have to use input tag and type must be file.
- In the HTML form, Method attribute value must be post and encoding attribute value must be multipple/form-data.
- When user click submit button of HTML the file is uploaded and server is saved the file as temporary file PHP can get the temporary file and move it temporary location.

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|------------|--|-----------------|-------------|-------------|
|            | • <b><u>Assignment -1</u></b>  |                 | 1/7/2020    |             |
| 1          | Write program in PHP and Html which ask user to enter the Amount, rate and Duration in years and calculate and display Simple the simple interest.   |                 |             |             |
| 2.         | Write a PP and HTML script which ask user to enter his first name and last name and display it. The program must get the values by using \$_GET, \$POST and \$_REQUEST. Check if you set method = Get/post and retrieve the variable using \$_POST/\$_GET. |                 |             |             |
| 3.         | Write a PHP script which ask user to provide min and max radius value. The sciprt will display area of a circle of radius wise.  |                 |             |             |
| 4.         | Write html script which ask user to enter studentId,name And marks og 3 subjects . Script will display the total marks,percentage and grade.   |                 |             |             |
| 5.         | Write a php script which will write students information In binary(textfile) and display acknowledgement .   |                 |             |             |
| 6.         | Write a PHP script which will read the students information from the file studinfo.txt and display records.  |                 |             |             |
| 7.         | Write a PHP script which will display the filesize studinfo.txt and display records Also provide functionality of record navigation by using fseek, ftell and seek in built Functions  |                 |             |             |
| 8.         | Create a php script which allows user to choose his hobby From the checkbox  |                 |             |             |
| 9.         | Create an array of yourfav. Punjabi food .write script to print only even Punjabi food from array.   |                 |             |             |
| 10         | Create an array of Milk Types and its price.   |                 |             |             |

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|-----|--|----------|----------|------|
|     | • <u>Assignment – 2 :</u>  |          | 1/7/2020 |      |
| 1.  | Write a php script using function to calculate discount amount<br><br>And net payable amount. All product details entered by the<br><br>user.  |          |          |      |
| 2.  | Write a PHP script file which make your pages have the<br><br>same look. [Hint: use require]   |          |          |      |
| 3.  | Write a PHP function which ask the user number of<br><br>tickets to be booked. The function get the no. of booked<br><br>tickets and create a table based on that which have exactly<br><br>same rows as number entered by user  |          |          |      |
| 4.  | Write a function which takes 5 number of input as array<br><br>from user. Then calculate total and average and display<br><br>total and average of the 5 numbers   |          |          |      |
| 5.  | Write a program to calculate factorial value by using<br><br>recursive function.   |          |          |      |
| 6.  | Create a class Vehicle having attributes VID, ModelNo<br><br>and Mileage( per liter). Write operations to calculate cost<br><br>per Km by asking price of fuel from user.  |          |          |      |
| 7.  | Create a class Car which is child class of the class Vehicle.<br><br>Add the operation maintenance for car class. The<br><br>maintenance class has a property to calculate cost to<br><br>maintain a car in good condition for a month. Write a<br><br>function which provides the total maintenance cost of a car<br><br>for the year |          |          |      |
| 8.  | sing question 6,7 take input from user for three cars<br><br>maintenance. Add these records into text file. Calculate<br><br>most economical car and display car details.  |          |          |      |
| 9.  | Make exception handling for above program.   |          |          |      |

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|------------|--|-----------------|-------------|-------------|
| 10.        | Write an PHP script which allows user to enter product Name, Quantity and Price. Based on the price and quantity calculate cost for each item and total cost , Make Appropriate validation and exception haneling. |                 |             |             |
| 11.        | Explain with example all functions for array.  |                 |             |             |
| 12.        | Explain all string manipulation functions.   |                 |             |             |
|            | • <u>Assignment – 3 :</u>  |                 | 1/7/2020    |             |
| 1          | <b>Create the tables described below and insert the data :</b><br><b>Client_master, Product_master,salesman_master,</b><br><b>Sale_order , sale_order_details</b>  |                 |             |             |
| 2.         | <b>Exercises computation on table data:</b>  |                 |             |             |
| a).        | <b>Find the name of all clients having ‘a’ as the second letter in their names</b>   |                 |             |             |
| b).        | <b>Find out the clients who stay in a city whose second letter is ‘a’.</b>   |                 |             |             |
| c).        | <b>Find the list of all client who stay in ‘Bombay’ or ‘Delhi’</b>   |                 |             |             |
| d).        | <b>Print the list of client whose bal_due is greater then value 10000</b>  |                 |             |             |
| e).        | <b>Print the information from sales_oeder table for order placed in the month of January</b>   |                 |             |             |
| f).        | <b>Display the order information for client_no ‘C00001’ and ‘C00002’</b>   |                 |             |             |
| g).        | <b>Find products whose selling price is greater than 2000 and less than or equal to 5000.</b>  |                 |             |             |
| h).        | <b>Find products whose selling price is more than 1500.<br/>Calculate a new selling price as, original selling price * .15.</b>  |                 |             |             |

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|-----|---|----------|------|------|
|     | Rename the new column in the above query as new_price.  |          |      |      |
| i). | List the names, city and state of clients who r not in the state of ‘Maharastra’.                               |          |      |      |
| j). | Count the total number of orders.   |          |      |      |
| k). | Calculate the average price of all the products.  |          |      |      |
| l). | Determine the maximum and minimum product prices.   |          |      |      |
|     | Rename the output as max_price and min_price respectively   |          |      |      |
| m). | Count the number of products having price greater than or equal to 1500.  |          |      |      |
| n). | Find all the products whose qty_no_nahd is less than recorder level.  |          |      |      |
|     | • Exercise on Date Manipulation:  |          |      |      |
| a). | Display the order number and day on which clients placed their order.   |          |      |      |
| b). | Display the month (in alphabets) and date when the order must be delivered.                                     |          |      |      |
| c). | Display the order_date in the format ‘DD-Month-yy’. e.g.<br>12-February-96.                                     |          |      |      |
| d). | Find the date, 15 days after today’s date   |          |      |      |
| e). | Find the number of days elapsed between today’s date and the delivery date of the orders placed by the clients. |          |      |      |
|     | • Exercise on using Having and Group By Clauses:  |          |      |      |
| a). | Print the description and total qty sold for each product.  |          |      |      |

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|------------|---|-----------------|-------------|-------------|
| b).        | <b>Find the value of each product sold.</b>   |                 |             |             |
| c).        | <b>Calculate the average qty sold for each client that has a maximum order value of 15000.00</b>  |                 |             |             |
| d).        | <b>Find out the sum total of all the billed orders for the month of January.</b>  |                 |             |             |
|            | <b>• Exercise on Joins and Correlation:</b>   |                 |             |             |
| a).        | <b>Find out the products, which have been sold to ‘Ivan Bayross’</b>  |                 |             |             |
| b).        | <b>Find out the products and their quantities that will have to be delivered in the current month</b>   |                 |             |             |
| c).        | <b>Find the product_no and description of constantly sold i.e. rapidly moving products</b>  |                 |             |             |
| d).        | <b>Find the name of clients who have purchase ‘CD Drive’.</b>   |                 |             |             |
| e).        | <b>List the product_no and order_no of customers having qty_ordered less than 5 from the sales_order_details table for the product ‘1.44 Floppies’.</b> |                 |             |             |
| f).        | <b>Find the products and their quantities for the orders placed by ‘Ivan Bayross’ and ‘Vandana Saitwal’</b>   |                 |             |             |
| g).        | <b>Find the products and their quantities for the orders placed by client_no ‘C00001’ and ‘C00002’.</b>   |                 |             |             |
|            | <b>• Exercise on Sub-queries:</b>   |                 |             |             |
| a).        | <b>Find the product_no and description of non-moving products i.e. products not being sold.</b>   |                 |             |             |
| b).        | <b>Find the customer name, address1, address2, city and pin code for the client who has placed order no ‘O19001’.</b>                                   |                 |             |             |

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|------------|---|-----------------|-------------|-------------|
|            | <b>code for the client who has placed order no ‘O19001’.</b>  |                 |             |             |
| c).        | <b>Find the client names who have placed orders before the month of May’96</b>  |                 |             |             |
| d).        | <b>Find out if the product ‘1.44 Drive’ has been ordered by any client and print the clint_no, name to whom it was sold</b>   |                 |             |             |
| e).        | <b>Find the names of clients who have placed orders worth Rs.10000 or more</b>  |                 |             |             |
|            | <b>• Exercise on Constructing Sentences with data:</b>  |                 |             |             |
| a).        | <b>Print information from product_master, sales_order_detail tables in the following format for all the records: {Description} worth Rs. {total sales for the product} was sold.</b>  |                 |             |             |
| b).        | <b>Print information from client_master, product_master, sales_order tables in the following format for all the records: {cust_name} has placed order {order_no} on {order_date}.</b> |                 |             |             |
|            | <b>• Assgnmwnt – 4</b>  | 1/7/2020        |             |             |
| 1).        | <b>Write a php script to upload a file</b>  |                 |             |             |
| 2).        | <b>Write a php script which reads and display each directory as a bulleted list.</b>  |                 |             |             |
| 3).        | <b>Write a php script which reads and display each file of a specified directory</b>  |                 |             |             |
| 4).        | <b>Write a php script which reads and display each file</b>   |                 |             |             |

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|------------|---|-----------------|-------------|-------------|
|            | <b>e details of a specified directory. The file details include file last access date, last modified date, owner etc.</b>   |                 |             |             |
| <b>5).</b> | <b>Write a php script which reads and display each file of each directory.</b>  |                 |             |             |
| <b>6).</b> | <b>Write a program to create, copy and delete a directory using php.</b>  |                 |             |             |
| <b>7).</b> | <b>Create a database in named Samay in mysql . The samay database has a table named Watch. In the Watch table perform the followings:</b>   |                 |             |             |
|            | <b>i. insert a record with data and time</b>  |                 |             |             |
|            | <b>ii. Insert a record with only date</b>   |                 |             |             |
|            | <b>iii. Insert a record with only time</b>  |                 |             |             |
|            | <b>iv. Retrieve a record which will display only date in the format dd/mm/yyyy</b>  |                 |             |             |
|            | <b>v. Retrieve a record which will display date in the format mm/dd/yyyy</b>  |                 |             |             |
|            | <b>vi. Retrieve a record which will display date in the format yyyy-mm-dd</b>   |                 |             |             |
|            | <b>vii. Retrieve a record which will display date and time in the format dd/mm/yyyy hh:mi:ss viii.</b>  |                 |             |             |
|            | <b>What is the date of a record in which you have inserted time only?</b>   |                 |             |             |
| <b>8).</b> | <b>Write a php script which allows user to store one or more items in a shopping cart. When user click on continue button it moves to the previous page and allows user to change quantity of selected items. If user click on show cart button it will display shopping cart with items.</b> |                 |             |             |
|            |   |                 |             |             |

```
*****
***** NAME : Preksha Sheth
***** ROLL NO : 36
***** CLASS : MCA-II
***** SUBJECT : WAD
*****
```

### ASSIGNMENT - 1

```
*****
***** Q(1):Write program in PHP and Html which ask user to enter the Amount,
***** rate and Duration in years and
***** calculate and display Simple the simple interest.
```

```
*****
<html>
<body>
    <form method="POST">
        <table align="center" width="20%" height="30%">
            <tr>
                <td>Enter Amount : </td>
                <td><input type="text" name="amt"></td>
            </tr>
            <tr>
                <td>Enter Rate : </td>
                <td><input type="text" name="rate"></td>
            </tr>
            <tr>
                <td>Enter Duration : </td>
                <td><input type="text" name="dur"></td>
            </tr>
            <tr>
                <td></td>
                <td><input type="submit" value="submit"></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

```
<?php
if($_SERVER['REQUEST_METHOD'] == "POST")
{
$amt=$_POST['amt'];
$rate=$_POST['rate'];
$dur=$_POST['dur'];
$in=($amt * $rate * $dur)/(100);
echo "Simple Intrest = $in";
```

```

}

/*$amt=10;
$rate=10;
$dur=10;
$inr= ($amt*$rate*$dur)/(100);
echo "Inrest = $inr";*/
?>

*****  

*****  

Q(2):Write a PP and HTML script which ask user to enter his first name  

and last name and display it. The program must get the values  

by using $_GET, $_POST and $_REQUEST. Check if you set method = Get/post  

and retrieve the variable using $_POST/$_GET.  

*****  

*****  

p2.html :-  

<!DOCTYPE html>  

<html>  

    <head>  

        <title>Practical-2</title>  

    </head>  

    <body>  

        <h2>Display data using GET method</h2>  

        <form action="p2.php" method="get">  

            <label>Enter First Name : </label>  

            <input type="text"  

name="get_firstname"><br>  

            <label>Enter Last Name : </label>  

            <input type="text"  

name="get_lastname"><br>  

            <input type="submit" name="submitGet"  

value="Submit">  

        </form>  

        <h2>Display data using POST method</h2>  

        <form action="p2.php" method="post">  

            <label>Enter First Name : </label>  

            <input type="text"  

name="get_firstname"><br>  

            <label>Enter Last Name : </label>  

            <input type="text"  

name="get_lastname"><br>  

            <input type="submit" name="submitPost"  

value="Submit">  

        </form>  

        <h2>Display data using REQUEST method</h2>  

        <form action="p2.php" method="post">  

            <label>Enter First Name : </label>  

            <input type="text"  

name="get_firstname"><br>  

            <label>Enter Last Name : </label>  

            <input type="text"  

name="get_lastname"><br>

```

```

                <input type="submit"
name="submitrequest" value="Submit">
            </form>
        </body>
</html>

```

p2.php :-

```

<?php
    if (isset($_GET['submitGet'])) {
        $firstname = $_GET['get_firstname'];
        $lastname = $_GET['get_lastname'];
        echo $firstname;
        echo $lastname." ";
    }
    if (isset($_POST['submitPost'])) {
        $firstname = $_POST['post_firstname'];
        $lastname = $_POST['post_lastname'];
        echo $firstname." ";
        echo $lastname;
    }
    if (isset($_POST['submitrequest'])) {
        $firstname = $_REQUEST['post_firstname'];
        $lastname = $_REQUEST['post_lastname'];
        echo $firstname ." ";
        echo $lastname;
    }
?
*****
*****Q(3):Write a PHP script which ask user to provide min and max radius
value. The sciprt will display area of a circle of radius wise.
The format should be as follow: The area of circle for radius 1 is 3.14
sq meter. [ Min value = 1]
*****
<html>
<head>
<style>
    .btn{
        font-size:20px;
    }
</style>
</head>
<body>
    <form method="POST" style="width:35%; font-size:20px; margin-
left:35%;margin-top:12%">
        <fieldset>
            <legend><b><i> AREA OF CIRCLE</i></b> </legend>
            <br><b>Enter Minimum Radious :</b>
            <input type="text" name="min" required><br/><br/>
            <b>Enter Maximum Radious :</b>

```

```

<input type="text" name="max" required><br/><br/>
<center><br><input type="submit" value="submit"
class="btn"></center>

<?php
if($_SERVER['REQUEST_METHOD']=="POST")
{
    $min = $_POST['min'];
    $max = $_POST['max'];
    for($i=$min;$i<=$max;$i++)
    {
        $area = 3.14*$i;
        echo "<br/><br/>* The Area Of Circle for Radious
$i is $area sq.meters...";
    }
}
?>

</fieldset>
</form>
</body>
</html>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(4): Write a PHP/HTML script which ask user to enter StudentID, Name, and marks of the 3 subjects. The script will display the total marks, percentage and grade. The guideline to determine Grade is;

Grade A if percentage >70
Grade B if percentage >65
Grade C if percentage >60
Grade D if percentage >55
Grade E if percentage >50
Grade F if percentage <50.

Write the same script by using if -else ladder and switch case. Make validations that the marks are must be positive integer numbers only. StudentID and student Name must be entered.

\*\*\*\*\*  
\*\*\*\*\*  
SWITCH CASE :

```

<html>
<head>
<style>
body
{
    font-family:consolas;
    font-size:20px;
}

```

```

.btn
{
    background-color:slateblue;
    border:none;
    height:45px;
    width:170px;
    color:white;
    font-size:20px;
    border-radius:30px;
}

.txtbox
{
    border-radius:30px;
    border:none;
    box-shadow:2px 2px 10px #c2c2c2;
    height:40px;
    width:170px;
    font-size:20px;
    padding:12px;
}

.myform
{
    display:inline-block;
    text-align:left;
    margin-top:3%;
}

.ans
{
    display:inline-block;
    text-align:left;
}

</style>
</head>
<body>
<center>

<form method="POST" class="myform">
<div>// Calculate Marks, Percentage & Grade //</div><br><br>
Student ID: <input type="text" class="txtbox" name="stid" required><br><br>
Student Name: <input type="text" class="txtbox" name="stname" required><br><br>
Subject 1 Marks: <input type="number" class="txtbox" name="sub1" min="0"><br><br>
Subject 2 Marks: <input type="number" class="txtbox" name="sub2" min="0"><br><br>
Subject 3 Marks: <input type="number" class="txtbox" name="sub3" min="0"><br><br>
<center><input type="submit" value="Calculate" class="btn"></center>
</form>
</center>

```

```
</body>
</html>

<?php

if($_REQUEST['REQUEST_METHOD']=="POST")
{
    $total=$_POST['sub1']+$_POST['sub2']+$_POST['sub3'];
    $percent=($total*100)/300;

    $val=0;
    $grade='X';

    if($percent>70)
    {
        $val=1;
    }
    else if($percent>=65 && $percent<=70)
    {
        $val=2;
    }
    else if($percent>=60 && $percent<=64)
    {
        $val=3;
    }
    else if($percent>=55 && $percent<=59)
    {
        $val=4;
    }
    else if($percent>=50 && $percent<=54)
    {
        $val=5;
    }
    else if($percent<50)
    {
        $val=6;
    }

    switch($val)
    {
        case 1:
        {
            $grade='A';
            break;
        }
        case 2:
        {
            $grade='B';
            break;
        }
        case 3:
        {
            $grade='C';
            break;
        }
    }
}
```

```

        }
    case 4:
    {
        $grade='D';
        break;
    }
    case 5:
    {
        $grade='E';
        break;
    }
    case 6:
    {
        $grade='F';
        break;
    }
    default:
    {
        echo "<br><font color='red'>Error: Value of Percentage
is Invalid!</font>";
        break;
    }
}

echo "<center><div class='ans'><br>Total Marks:
$total<br><br>Percentage: $percent<br><br>Grade: $grade</div></center>";
}

?>

```

ELSEIF :

```

<html>
<body>
    <form method="POST">
        <table>
            <tr>
                <td>Enter Student ID : </td>
                <td><input type="number" name="id"
min="1" required></td>
            </tr>
            <tr>
                <td>Enter Student Name : </td>
                <td><input type="text" name="name"
required></td>
            </tr>
            <tr>
                <td>Enter Marks For Sub1 : </td>

```

```

                <td><input type="number" name="s1"
min="0" required></td>
            </tr>
            <tr>
                <td>Enter Marks For Sub2 : </td>
                <td><input type="number" name="s2"
min="0" required></td>
            </tr>
            <tr>
                <td>Enter Marks For Sub1 : </td>
                <td><input type="number" name="s3"
min="0" required></td>
            </tr>
            <tr>
                <td> </td>
                <td><input type="submit"
value="Submit"></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

```

<?php
if($_SERVER['REQUEST_METHOD']=="POST")
{
    $m1=$_POST['s1'];
    $m2=$_POST['s2'];
    $m3=$_POST['s3'];
    $total = $m1 + $m2 + $m3;
    echo "<br/><br/>Total = ".$total;
    $per=($total*100)/300;
    echo "<br/><br/>Percentage =".$per;

    if($per >= 70)
    {
        echo "<br/><br/>You are Passed with A grade...";
    }
    else if($per >= 65 && $per <70)
    {
        echo "<br/><br/>You are Passed with B grade...";
    }
    else if($per >= 60 && $per <65)
    {
        echo "<br/><br/>You are Passed with C grade...";
    }
    else if($per >= 55 && $per <60)
    {
        echo "<br/><br/>You are Passed with D grade...";
    }
    else if($per >= 60 && $per <55)
    {
```

```

        echo "<br/><br/>You are Passed with E grade...";
    }
else if($per >= 55 && $per <50)
{
    echo "<br/><br/>You are Passed with F grade...";
}
else
{
    echo "<br/><br/>You Are Failed..";
}

}

?>
*****
*****Q(5):Write a PHP script which will write students information in a
binary(textfile) name studinfo.txt and display acknowledgement.

*****
<html>
<body>
<form method="POST">
<table>
<tr>
    <td>Enter First Name :</td>
    <td><input type="text" name="fname" required></td>
</tr>
<tr>
    <td>Enter Last Name :</td>
    <td><input type="text" name="lname" required></td>
</tr>
<tr>
    <td>Enter Email :</td>
    <td><input type="email" name="mail" required></td>
</tr>
<tr>
    <td>Enter Mobile No. :</td>
    <td><input type="number" name="no" min="0" required></td>
</tr>
<tr>
    <td>Enter City :</td>
    <td><select name="city">
        <option>Ahmedabad</option>
        <option>Surat</option>
        <option>Vadodara</option>
    </select></td>
</tr>
<tr>
    <td colspan="2"><input type="submit" value="Write
Data"><br/></td>
</tr>
</table>
</form>
```

```

</body>
</html>

<?php
if($_REQUEST['REQUEST_METHOD']=="POST")
{
    $file=fopen("studinfo.txt","a") or die("Unable to open file!");
    //fwrite($file,"Fname\t\tLname\t\tEmail\t\tMobile No\t\tCity\n\n");
    fwrite($file, $_POST['fname']."\t\t");
    fwrite($file, $_POST['lname']."\t\t");
    fwrite($file, $_POST['mail']."\t\t");
    fwrite($file, $_POST['no']."\t\t");
    fwrite($file, $_POST['city']."\t\t");
    fwrite($file, PHP_EOL);
    echo "Thanks! Data Inserted Successfully...";
}
?>
*****
***** Q(6): Write a PHP script which will read the students information from the file studinfo.txt and display records.
*****
```

```

*****<html>
<body>
<form method="POST">
    <input type="submit" value="Read Data">
</form>
</body>
</html>
<?php
    if($_REQUEST['REQUEST_METHOD']=="POST")
    {
        $file=fopen("studinfo.txt","r") or die("You are unable to open file..");
        echo "<pre><b><i>First Name\tLast Name\tEmail\t\tMobile No.\t\tCity</b></i></pre>";
        echo
"<br>=====;
=====;
        while(!feof($file))
        {
            echo "<pre><i>".fgets($file)."</i></pre>";
        }
        fclose($file);
    }
?>
***** Q(7): Write a PHP script which will display the filesize studinfo.txt and display records. Also provide functionality of record navigation by using fseek, ftell and seek in built functions.
*****
```

```
*****
*****<?php
    $my_file = 'studinfo.txt';
    $file = fopen($my_file, 'r');
    echo "<br>File Size = ".filesize($my_file);
    echo "<br>Ftell = ".ftell($file); //Return the current
position of the read/write pointer in an open file
    echo "<br>Fseek = ".fseek($file, '5');//Read first line from
the open file, then move the file pointer back to the beginning of the
file:
    echo "<br>Ftell = ".ftell($file);
    echo "<br>Fseek = ".fseek($file, '10');
    echo "<br>Ftell = ".ftell($file);
//$file2 = new SplFileObject($my_file);
//$file2->seek(2);
//echo $file->current();
?>
*****
```

Q(8):Create a PHP/HTML script which allows user to choose his/her hobbies by checking the checkboxes and display the user's hobbies.

```
*****
*****<html>
<body>
    <form method="POST">
        <input type="checkbox" name="hob[]" value="cricket">Cricket<br/><br/>
        <input type="checkbox" name="hob[]" value="Singing">Singing<br/><br/>
        <input type="checkbox" name="hob[]" value="Dancing">Dancing<br/><br/>
        <input type="checkbox" name="hob[]" value="Swimming">Swimming<br/><br/>
        <input type="checkbox" name="hob[]" value="Drawing">Drawing<br/><br/>
        <input type="submit" name="submit" value="submit"><br/><br/>
    </form>
</body>
</html>
<?php
if($_SERVER['REQUEST_METHOD']=="POST")
{
    if(isset($_POST['submit']))
    {
        if(!empty($_POST['hob']))
        {
            echo "***** HOBBIES *****<br/><br/>";
            foreach($_POST['hob'] as $value)
            {
                echo $value."<br/>";
            }
        }
    }
}
```

```

        }
    }
}

?>
*****
*****Q(9):Create an array of your favorite Punjabi food. Write PHP script to
display only even number position Punjabi food.
*****
*****<?php
$p_dish=array("Paneer-Tikka","Chhole-Bhature","dal-Makhani","Paneer
Butter Masala","palak paneer");
for($i=0;$i<count($p_dish);$i++)
{
    echo "Name of Dish =".$p_dish[$i]."<br/>";
}
echo "<br/><br/>***** Even No. of Dishes *****<br/>";
for($i=0;$i<count($p_dish);$i++)
{
    if($i % 2 == 0)
    {
        //echo "esf";
        echo "<br/>$i.$p_dish[$i]<br/>";
    }
}
?>
*****
*****Q(10):Create an array of Milk Types and its price.
    i.Display all the types and price.
    ii. Sort the array by price and display.
    iii. Sort the array by milk type and display

*****
*****<?php
        echo "<h2>***** LIST OF MILK TYPE AND ITS PRICE
*****</h2><br><br>";
        $milktypes = array("Full Fat"=>'40' , "Low Fat"=>"35" ,
                           "Flavor Milk"=>'45' , "Skim
Milk"=>'38');
        foreach($milktypes as $key => $val)
        {
            echo "$key = ".$val.<br>;
        }
        echo "<br><h3>Sort By Milk Type wise</h3>";
        ksort($milktypes); //sort assending
        foreach($milktypes as $t =>$t_val)
        {
            echo "$t = ".$t_val.<br>;
        }
        /*ksort($milktypes); //sort reverse desc

```

```

foreach($milktypes as $t1 =>$t1_val)
{
    echo "$t1 = ".$t1_val<br>;
} */
echo "<br><h3>Sort By Milk Price wise</h3>";
asort($milktypes); //sort ascending in price
//arsort($milktypes); // sort desc in price
foreach($milktypes as $p =>$p_val)
{
    echo "$p = ".$p_val<br>;
}
?>
*****
*****Q(11):Create a 2-D array which stores the distance between Source and
Destination of five cities in KM. Allows user to choose source
and Destination from Drop Down list. The script should display correct
distance between the two cities.
*****
*****p11.html:
<!DOCTYPE html>
<html>
    <head>
        <title>Practical - 8</title>
    </head>
    <body>
        <form action = "p11.php" method = "post">
            <label>First city</label>
            <select name = "cityA">
                <option value =
0>Indianapolis</option>
                <option value = 1>New York</option>
                <option value = 2>Tokyo</option>
                <option value = 3>London</option>
            </select>
            <br/>
            <label>Second city</label>
            <select name = "cityB">
                <option value =
0>Indianapolis</option>
                <option value = 1>New York</option>
                <option value = 2>Tokyo</option>
                <option value = 3>London</option>
            </select>
            <br/>
            <input type="submit" value = "calculate
distance">
        </form>
    </body>
</html>

```

p11.php :-

```

<?php
    $cityA = $_POST['cityA'];
    $cityB = $_POST['cityB'];
    $city = array("Indianapolis", "New
York", "Tokyo", "London");
        $distance = array(array(0, 648, 6476, 4000),
                        array(648, 0, 6760, 3470),
                        array(6476, 6760, 0, 5976),
                        array(4000, 3470, 5976, 0)
                    );
    $result = $distance[$cityA][$cityB];
    echo "The distance between ";
    echo "$city[$cityA] and $city[$cityB]";
    echo "<t>is $result miles.</t>";
?

```

\*\*\*\*\*
\*\*\*\*\*  
Q(12):Create a 2-D array which stores card types ('C', 'H', 'D', 'S') and rank (2,3,4,5,6,7,8,9,10, J, Q,K,A). Each type has 13 ranks.  
Display total cards by their type and rank in ascending and descending order. Then shuffle it and display the cards.

\*\*\*\*\*
\*\*\*\*\*

```

<?php
    $values =
array('2', '3', '4', '5', '6', '7', '8', '9', '10', 'J', 'Q', 'K', 'A');
    $types = array('C', 'D', 'H', 'S');
    echo 'The playing cards are:<br>';
    $cards = array();
    foreach($types as $t)
    {
        foreach($values as $v)
        {
            $cards[] = $t.$v;
        }
    }
    foreach($cards as $card)
    {
        echo "$card ";
    }
    rsort($cards);
    echo "<br> After sorting in descending order<br>";
    foreach($cards as $card)
    {
        echo "$card ";
    }
    echo '<br>After shuffle 5 cards are <br>';
    shuffle($cards);
    $hand = array();
    for ($i=0;$i<5;$i++)
    {

```

```

        $hand[] = array_shift($cards);
    }
    foreach($hand as $hands)
    {
        echo "$hands ";
    }
?
```

\*\*\*\*\*

Q(13):Load the student's details from studinfo.txt to an array and display all students information in tabular format.

\*\*\*\*\*

```

<?php
    $my_file = 'studinfo.txt';
    $file = fopen($my_file, 'r');
    $details = explode("\n",
fread($file,filesize($my_file)));
    echo "<table border='1'><tr><td>Student
Details</td></tr>";
    foreach($details as $d) {
        echo "<tr><td>$d</td></tr>";
    }
?
```

\*\*\*\*\*

Q(14):Create an array and apply following functions and display the results:

- i. each ii. Current iii. Reset iv. End v. pos vi. Prev vii.
- array\_walk viii. Count ix. Sizeof x. array\_count\_values xi. Extract

\*\*\*\*\*

```

<?php
    echo "<h2>List of Car Brand name</h2>";
    $cars = array('Volvo', 'BMW', 'Toyota', 'Force
Motors', 'IPML', 'Hindustan Motors', 'Maruti Suzuki India', 'Tata Motor');
    echo " Function : each() - ";
    print_r(each($cars));
    echo "<br/>Function : Current() - ";
    echo current($cars);
    echo "<br/>Function : Reset() - ";
    echo reset($cars);
    echo "<br/>Function : End() - ";
    echo end($cars);
    echo "<br/>Function : pos() - ";
    echo pos($cars);
    echo "<br/>Function : Prev() - ";
    echo prev($cars);
    echo "<br/>Function : array_walk() - ";
    function myfunction($value,$key)
    {
        echo "The key $key has the value $value. ";
    }
}
```

```

        $a=array("a"=>"red","b"=>"green","c"=>"blue");
        array_walk($a,"myfunction");
        echo "<br/>Function : Count() - ";
        echo Count($cars);
        echo "<br/>Function : Sizeof() - ";
        echo sizeof($a);
        echo "<br/>Function : array_count_values() - ";
        print_r(array_count_values($cars));
        echo "<br/>Function : Extract() - ";
        $a = "Original";
        $my_array = array("a" => "Cat","b" => "Dog", "c" =>
    "Horse");
        extract($my_array);
        echo "\$a = $a; \$b = $b; \$c = $c";
    ?>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(15):Write a simple php script which evalutes following string functions and display the output:

i. ltrim ii. Rtrim iii. Trim iv. Str\_pad v. Lcfist vi. Ucfirst vii.  
Ucwords viii.ucfirst ix. Strtolower x. Strtoupper xi. Strrev  
xii. Str\_shuffle xiii. Str\_repeat xiv. Explode xv. Implode xvi. Strcmp  
xvii. Strcasecmp xviii. Strcasecmp xix. Strnatcmp xx. Strnatcasecmp  
xxi. Strlen xxii. Strstr xxiii. Strchr xxiv. Strrchr xxv. Stristr xxvi.  
Strpos xxvii. Strrpos xxviii. Str\_replace xxix. Subbstr\_replace

\*\*\*\*\*  
\*\*\*\*\*  
<?php  
 \$str = "Hello , I am Preksha..";  
 \$str2 = "hello , I am Preksha..";  
 echo "<center><h2>\*\*\* String Function \*\*\*</h2></center>";  
 echo "<br><h3>String = ".\$str."</h3>";  
 echo "<h3>String 2 = ".\$str2."</h3>";  
 echo "<br><b>ltrim() = </b>".ltrim(\$str,'Hello , ');  
 echo "<br><b>rtrim() = </b>".rtrim(\$str,'Preksha.');
 echo "<br><b>trim() = </b>".trim(\$str,'Preksha.');
 echo "<br><b>str\_pad() = </b>".str\_pad(\$str,20);  
 echo "<br><b>Lcfist() = </b>".lcfist(\$str);  
 echo "<br><b>Ucfirst() = </b>".ucfirst(\$str2);  
 echo "<br><b>Ucwords() = </b>".ucwords(\$str2);  
 echo "<br><b>StrtoLower() = </b>".strtolower(\$str);  
 echo "<br><b>StrtoUpper() = </b>".strtoupper(\$str2);  
 echo "<br><b>strrev() = </b>".strrev(\$str);  
 echo "<br><b>str\_shuffle() = </b>".str\_shuffle(\$str);  
 echo "<br><b>str\_repeat() = </b>".str\_repeat('Prekshu ',5);  
 echo "<br><b>Explode() = </b>"; //breaks the string into an  
array  
 print\_r(explode(' ', \$str));  
  
 \$name = array('p','r','e','k','s','h','u');

```

echo "<br><b>Implode() = </b>".implode($name);
echo "<br><b> OR Implode() = </b>".implode(',',$name);

echo "<br><b>strcmp () = </b>".strcmp($str,$str2);
echo "<br><b>Strcasecmp() = </b>".strcasecmp($str,$str2);
echo "<br><b>strnatcmp() = </b>".strnatcmp($str,$str2);
echo "<br><b>strnatcasecmp() =
</b>".strnatcasecmp($str,$str2);
echo "<br><b>strlen() = </b>".strlen($str);
echo "<br><b>strstr() = </b>".strstr($str,'Pre');//finds the
first occurence of char to another string
echo "<br><b>strchr() = </b>".strchr($str,'I');//same as
strstr
echo "<br><b>strrchr() = </b>".strrchr($str,'I');//find the
position of the last occurrence of a string within another string and
return all char from this pos to the end of the string
echo "<br><b>stristr() = </b>".stristr($str,'p');//ignre case
in strstr
echo "<br><b>strpos() = </b>".strpos($str,'Pre');
echo "<br><b>strrpos() = </b>".strrpos($str,'P');
echo "<br><b>str_replace() =
</b>".str_replace('Preksha','replace_Prekshu',$str);
echo "<br><b>substr_replace() =
</b>".substr_replace('Hello','World',2);
?>
*****
*****Q(16):Write a php script which ask user to enter username and password.
Validate the username by that
a. username only includes alphanumeric characters only.
b. Username must begin with character only
The password
a. Must contain at least one punctuation mark.
b. Must contain at least one digit
*****
```

```

*****p16.html :-
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-16</title>
    </head>
    <body>
        <form action="p16.php" method="post">
            <label> Username : </label>
            <input type="text"
name="username"><br/>
            <label> Password : </label>
            <input type="password"
name="password">> <br/>
            <input type="submit" name="submit"
value="submit">
        </form>
```

```

        </body>
    </html>

p16.php :-  

<?php  

    $username = $_POST['username'];  

    $password = $_POST['password'];  

    if ($password == "" && $username == "") {  

        echo "Enter username & password";  

    }  

    elseif(preg_match('/^w{5,}$/, $username))  

    {  

        echo "Username must begin with  

character only and contains alphanumeric characters";  

    }  

    elseif(!preg_match('/^(?=.*\d)(?=.*[A-Za-z])[0-9A-Za-z!@#$%]{8,12}$/ ', $password)) {  

        echo 'Password must contain at least  

one punctuation mark and at least one digit';  

    }else{  

        $msg="success";  

    }  

?>  

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

## ASSIGNMENT - 2

```

*****
*****  

Q(1):Write a PHP script which allows user to enter product code, product  

name, product price and discount percentage. The program  

must use a function to calculate discounted amount calculate net pay  

amount.  

*****
```

```

INPUT :  

<!DOCTYPE html>  

<html>  

    <head>  

        <title>Practical-1</title>  

    </head>  

    <body>  

        <form action="" method="post">  

            <h2>Product Details</h2>  

            <label>Product code : </label>  

            <input type="text" name="p_code">  

            <br/>  

            <label>Product Name : </label>  

            <input type="text" name="p_name">  

            <br/>
```

```

<label>Product Price : </label>

<input type="text" name="p_price">
<br/>
<label>Product Discount : (In %)</label>
<input type="text" name="p_discount">
<br/>
<input type="submit" name="submit"
value="calculate">
</form>
</body>
</html>
<?php

if (isset($_POST['submit'])) {
    function calculate() {
        $price = $_POST['p_price'];
        $discount = $_POST['p_discount'];

        $calculate_price = ($price*$discount)/100;
        echo "Product Discount amount is
<b>$calculate_price</b>." ;
        echo "<br>";
        $netpay = $price-$calculate_price;
        echo "Net pay amount for Product
<b>$netpay</b>." ;
    }
    calculate();
}
?>
*****
*****
```

Q(2):Write a PHP script file which make your pages have the same look.  
[Hint: use require]

INPUT :

```

<?php
    echo " <h2>This is Practical 2 but Same look as below
practical - 1 </h2> ";
    require 'p1.php';
?>
```

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

Q(3):Write a PHP function which ask the user number of tickets to be booked. The function get the no. of booked tickets and create a table based on that which have exactly same rows as number entered by user. The value for rows are booked ticket numbers

```
*****
***** INPUT : *****
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-3</title>
    </head>
    <body>
        <form action="" method="post">
            <h2>Ticket Booking </h2>
            <label>Enter number of tickets :</label>
            <input type="text" name="number">
            <br/>
            <input type="submit" name="book"
value="Book">
        </form>
    </body>
</html>

<?php
    if (isset($_POST['book'])) {
        booking( $_POST['number']);
    }
    function booking($numberofticket) {
        echo " <table border=1>";
        for ($i=1; $i <=$numberofticket; $i++)
            echo "<tr><td>$i - Ticket<td><tr>";
        echo "</table>";
    }
?>
```

```
*****
***** Q(4):Write a function which takes 5 number of input as array from user.
Then calculate total and average and display total and average
of the 5 numbers.[Hint: use & to return multiple values]
*****
```

```
*****
***** INPUT : *****
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-4</title>
    </head>
    <body>
        <form action="" method="post">
            <h2>Practical - 4</h2>
            <?php addvalues(5); ?>
            <input type="submit" name="submit"
value="Display">
        </form>
    </body>
```

```

</html>
<?php
    function addvalues($n) {
        for($i=1;$i<=$n;$i++)
            echo "<label>Enter Number $i :</label><br>";
        <input type='text' name='number[]'><br/>";
    }
    if (isset($_POST['submit'])) {
        $number = $_POST['number'];
        $total = 0;
        foreach($number as $n)
            $total = $total + $n;
        echo "Total : $total.<br>";
        echo "Average : ".$total/count($number);
    }
?
*****
*****Q(5):Write a program to calculate factorial value by using recursive
function. The value must be entered by user.
*****
*****INPUT :
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-5</title>
    </head>
    <body>
        <form action="" method="post">
            <label>Enter Number : </label>
            <input type="text" name="number"><br><br>
            <input type="submit" name="submit"
value="Calculate Factorial">
        </form>
    </body>
</html>
<?php
    if (isset($_POST['submit'])) {
        $number = $_POST['number'];
        function factorial($number) {
            if ($number < 2)
                return 1;
            else
                return ($number * factorial($number-
1));
        }
        echo "Answer : ".factorial($number);
    }
?

```

```
*****
***** Q(6):Create a class Vehicle having attributes VID, ModelNo and Mileage( per liter). Write operations to calculate cost per Km by asking price of fuel from user. Implement all the attributes and operations for the class.
***** INPUT :
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-6</title>
    </head>
    <body>
        <h2>Fuel cost calculator</h2>
        <form action="" method="post">
            <label>Enter price of fuel : </label>
            <input type="text" name="price"><br>
            <input type="submit" name="submit"
value="Calculate Total cost">
        </form>
    </body>
</html>
<?php
    if(isset($_POST['submit'])) {
        class Vehical
        {
            private $vid,$modelno,$milage;
            public function
__construct($vid,$modelno,$milage){
                $this->vid = $vid;
                $this->modelno = $modelno;
                $this->milage = $milage;
            }
            public function getvid(){      return $this-
>vid; }
            public function setvid($value){ $this->vid
= $value;   }
            public function getmodelno(){      return
$this->modelno;   }
            public function setmodelno($value){
$this->modelno = $value;      }
            public function getmilage(){ return $this-
>milage;   }
            public function setmilage($value){ $this-
>milage = $value; }
            public function totalCost($cost){
                return $cost/$this->milage;
            }
        }
        $obj = new Vehical("101","PKC101",50);
        echo "Cost of fuel per KM is : ".$obj-
>totalCost($_POST['price']);
    }
}
```

```

        }
    ?>

*****
*****Q(7):Create a class Car which is child class of the class Vehicle. Add
the operation maintenance for car class. The maintenance class has a
property to calculate cost to maintain a car in good condition for a
month. Write a function which provides the total maintenance cost of a
car for the year.
*****
*****INPUT :
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-7</title>
    </head>
    <body>
        <h2>Maintainance cost calculator</h2>
        <form action="" method="post">
            <label>Enter maintainance cost : </label>
            <input type="text" name="maintain"><br>
            <input type="submit" name="submit"
value="Calculate Total cost">
        </form>
    </body>
</html>
<?php
    if(isset($_POST['submit'])){
        class Car extends Vehical
        {
            public function
__construct($vid,$modelno,$milage){

                parent::__construct($vid,$modelno,$milage);
            }
            public function MaintainanceCost($maintain){
                return 12*$maintain;
            }
        }
        $obj = new Car("101","PKC101",50);
        echo "Cost of Maintainance is : ".$obj-
>MaintainanceCost($_POST['maintain']);
    }
?>

*****
*****Q(8):Using question 6,7 take input from user for three cars maintenance.
Add these records into text file. Calculate most
economical car and display car details.
*****
*****
```

INPUT :

```
<!DOCTYPE html>
<html>
    <head>
        <title>Practical-8</title>
    </head>
    <body>
        <h2>Find Best Economical Car</h2>
        <form action="" method="post">
            <?php
                for($i=1;$i<=3;$i++)
                    echo "<label>Enter Car $i
maintanance : </label><input type='text' name=car$i><br><br/>";
                ?>
                <input type="submit" name="submit"
value="Find">
            </form>
        </body>
    </html>
    <?php
        if(isset($_POST['submit'])) {
            extract($_POST);
            class Vehical
            {
                private $vid,$modelno,$milage;
                public function
__construct($vid=0,$modelno='', $milage=0) {
                    $this->vid = $vid;
                    $this->modelno = $modelno;
                    $this->milage = $milage;
                }
                public function getvid(){ return $this-
>vid; }
                public function setvid($value){ $this->vid
= $value; }
                public function getmodelno(){ return
$this->modelno; }
                public function setmodelno($value) {
$this->modelno = $value; }
                public function getmilage(){ return $this-
>milage; }
                public function setmilage($value){ $this-
>milage = $value; }
                public function totalCost($cost){
                    return $cost/$this->milage;
                }
            }
            class Car extends Vehical
            {
                public function
__construct($vid=0,$modelno='', $milage=0) {
                    parent::__construct($vid,$modelno,$milage);
                }
            }
        }
    <?php
```

```

        }
        public function MaintainanceCost ($maintain) {
            return 12*$maintain;
        }
    }
$obj1 = new Car("101","PKC101",50,$car1);
$obj2 = new Car("102","PKC102",30,$car2);
$obj3 = new Car("103","PKC103",70,$car3);
$c1 = $obj1->MaintainanceCost($car1);
$c2 = $obj2->MaintainanceCost($car2);
$c3 = $obj3->MaintainanceCost($car3);
if($c1 <= $c2 && $c1 <= $c3){
    echo $obj1->getmodelno()." is best car.";
}
else if($c2 <= $c1 && $c2 <= $c3){
    echo $obj2->getmodelno()." is best car.";
}
else{
    echo $obj3->getmodelno()." is best car.";

}
?
```

\*\*\*\*\*  
\*\*\*\*\*  
Q9) :Make Exception handling for Question No. 8.  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

INPUT :

```

<!DOCTYPE html>
<html>
    <head>
        <title>Practical-8</title>
    </head>
    <body>
        <h2>Find Best Economical Car</h2>
        <form action="" method="post">
            <?php
                for($i=1;$i<=3;$i++)
                    echo "<label>Enter Car $i
maintanance : </label><input type='text' name=car$i><br><br/>";
                ?>
            <input type="submit" name="submit"
value="Find">
        </form>
    </body>
</html>
<?php
    if(isset($_POST['submit'])){
        extract($_POST);
        class Vehical

```

```

{
    private $vid,$modelno,$milage;
    public function
__construct($vid=0,$modelno='', $milage=0){
    $this->vid = $vid;
    $this->modelno = $modelno;
    $this->milage = $milage;
}
    public function getvid(){      return $this-
>vid; }
    public function setvid($value){   $this->vid
= $value; }
    public function getmodelno(){     return
$this->modelno; }
    public function setmodelno($value){ $this->modelno = $value; }
    public function getmilage(){ return $this-
>milage; }
    public function setmilage($value){ $this-
>milage = $value; }
    public function totalCost($cost){
        return $cost/$this->milage;
}
}
class Car extends Vehical
{
    public function
__construct($vid=0,$modelno='', $milage=0){

parent::__construct($vid,$modelno,$milage);
}
    public function MaintainanceCost ($maintain){
        return 12*$maintain;
}
}
try{
$obj1 = new Car("101","PKC101",50,$car1);
$obj2 = new Car("102","PKC102",30,$car2);
$obj3 = new Car("103","PKC103",70,$car3);
$c1 = $obj1->MaintainanceCost ($car1);
$c2 = $obj2->MaintainanceCost ($car2);
$c3 = $obj3->MaintainanceCost ($car3);
if($c1 <= $c2 && $c1 <= $c3){
    echo $obj1->getmodelno()." is best
car.";
}
else if($c2 <= $c1 && $c2 <= $c3){
    echo $obj2->getmodelno()." is best
car.";
}
else{
    echo $obj3->getmodelno()." is best
car.";
}
}

```

```

        }
        catch(Exception $e)
        {
            echo "Error: ".$e->getMessage();
        }
    }
?>

```

\*\*\*\*\*  
\*\*\*\*\*

Q(10): Write an PHP script which allows user to enter product Name, Quantity and Price. Based on the price and quantity calculate cost for each item and total cost. Make validation that the Quantity and Price must not be blanks and they are must be  $\geq 0$ . If any user enter violates the rule, make appropriate exception handling.

\*\*\*\*\*  
\*\*\*\*\*

INPUT :

```

<!DOCTYPE html>
<html>
    <head>
        <title>Practical-10</title>
    </head>
    <body>
        <form action="" method="post">
            <label>Product Name : </label>
            <input type="text" name="p_name">
            <br/>
            <label>Quantity : </label>
            <input type="text" name="p_quantity"
required>
            <br/>
            <label>Price : </label>
            <input type="text" name="p_price" required>
            <br/>
            <input type="submit" name="submit"
value="Calculate cost">
        </form>
    </body>
</html>
<?php
    if (isset($_POST['submit'])) {
        extract($_POST);
        if($p_quantity > 0 && $p_price > 0)
        {
            $total = $p_quantity*$p_price;
            echo "cost for product is <b> $p_price
</b><br>";
            echo "total cost for product is <b> $total
</b>";
        }
        else if($p_quantity == 0)

```

```

        echo "Enter valid quantity!!!!!";
    else if($p_price == 0)
        echo "Enter valid price!!!!";
    }
}
?>
*****
*****
```

### ASSIGNMENT - 3

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

Q(1): Creating the tables and insert the records :

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

```
<?php
```

```

require_once('connection.php');

$query = " SELECT * FROM information_schema.tables
            WHERE table_schema = '$DB_NAME'
            AND table_name = 'client_master'
            LIMIT 1;";
$is = mysqli_query($conn, $query);

if(mysqli_num_rows($is)) {
    echo "client_master Table Already Exists";
} else {
    $query = "CREATE table if not exists client_master(
    client_no varchar(6) primary key,
    name varchar(20) NOT NULL,
    address1 varchar(30),
    address2 varchar(30),
    city varchar(15),
    pincode int(8),
    state varchar(15),
    bal_due decimal(10,2));";

    $is = mysqli_query($conn, $query);
    if($is) {
        echo "client_master Table Created";
    } else {
        echo "<br>" . $query . "<br>";
        echo "client_master Create Table Failed";
    }
}

$arr = array(
    "INSERT into client_master values('C00001','Ivan
Bayross','','','Bombay',400054,'Maharashtra',15000);",
```

```

        "INSERT into client_master values('C00002','Vandana
Saitwal','','','Madras',780001,'Tamil Nadu',0);",
        "INSERT into client_master values('C00003','Pramada
Jaguste','','','Bombay',400057,'Maharashtra',5000);",
        "INSERT into client_master values('C00004','Basu
Navindgi','','','Bombay',400056,'Maharashtra',0);",
        "INSERT into client_master values('C00005','Ravi
Sreedharan','','','Delhi',100001,'Delhi',2000);",
        "INSERT into client_master
values('C00006','Rukmini','','','Bombay',400050,'Maharashtra',0);"
);

echo "<br>=====<br>";
foreach ($arr as $key) {
    $query = $key;
    $is = mysqli_query($conn, $query);
    if($is) {
        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possibility) -> " . $key;
    }
    echo "<br>";
}

echo "<br>=====<br>";
$query = "
SELECT *
FROM information_schema.tables
WHERE table_schema = '$DB_NAME'
AND table_name = 'product_master'
LIMIT 1;

";
$is = mysqli_query($conn, $query);

if(mysqli_num_rows($is)) {
    echo "product_master Table Already Exists";
} else {
    $query = "
CREATE table product_master
(
product_no varchar(6) primary key,
description varchar(20) NOT NULL,
profit_percent decimal(5,2) NOT NULL,
unit_measure varchar(10) NOT NULL,
qty_on_hand int(8) NOT NULL,
recorder_lvl int(8) NOT NULL,
sell_price decimal(8,2) NOT NULL,
cost_price decimal(8,2) NOT NULL
);

```

```

";
$ls = mysqli_query($conn, $query);
if($ls) {
    echo "product_master Table Created";
} else {
    echo "<br>" . $query . "<br>";
    echo "product_master Create Table Failed";
}
}

$arr = array(
    "INSERT into product_master values('P00001','1.44
Floppies',5,'Piece',100,20,525,500)",
    "INSERT into product_master
values('P03453','Monitors',6,'Piece',10,3,12000,11280)",
    "INSERT into product_master
values('P06734','Mouse',5,'Piece',20,5,1050,1000)",
    "INSERT into product_master values('P07865','1.22
Floppies',5,'Piece',100,20,525,500)",
    "INSERT into product_master
values('P07868','Keyboards',2,'Piece',10,3,3150,3050)",
    "INSERT into product_master values('P07885','CD
Drive',2.5,'Piece',10,3,5250,5100)",
    "INSERT into product_master values('P07965','540
HDD',4,'Piece',10,3,8400,8000)",
    "INSERT into product_master values('P07975','1.44
Drive',5,'Piece',10,3,1050,1000)",
    "INSERT into product_master values('P08865','1.22
Drive',5,'Piece',2,3,1050,1000)"
);

echo "<br>=====<br>";
foreach ($arr as $key) {
    $query = $key;
    $ls = mysqli_query($conn, $query);
    if($ls) {
        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possibility) -> " . $key;
    }
    echo "<br>";
}

echo "<br>=====<br>";
$query = "
SELECT *
FROM information_schema.tables
WHERE table_schema = '$DB_NAME'
AND table_name = 'salesman_master'
"

```

```

LIMIT 1;

";

$is = mysqli_query($conn, $query);

if(mysqli_num_rows($is)) {
    echo "salesman_master Table Already Exists";
} else {
    $query = "
CREATE table salesman_master
(
salesman_no varchar(6) primary key,
salesman_name varchar(20) NOT NULL,
address1 varchar(30) NOT NULL,
address2 varchar(30),
city varchar(20),
pincode varchar(6),
state varchar(20),
sal_amt decimal(8,2) NOT NULL,
tgt_to_get decimal(6,2) NOT NULL,
ytd_sales decimal(6,2) NOT NULL,
remarks varchar(60)
);
";

$is = mysqli_query($conn, $query);
if($is) {
    echo "salesman_master Table Created";
} else {
    echo "<br>" . $query . "<br>";
    echo "salesman_master Create Table Failed";
}
}

$arr = array(
    "INSERT into salesman_master
values('S00001','Kiran','A/14','Worli','Bombay',400002,'MAH',3000,100,50,
'Good')",
    "INSERT into salesman_master
values('S00002','Manish','65','Nariman','Bombay',400001,'MAH',3000,200,10
0,'Good')",
    "INSERT into salesman_master values('S00003','Ravi','P-
7','Bandra','Bombay',400032,'MAH',3000,200,100,'Good')",
    "INSERT into salesman_master
values('S00004','Ashish','A/5','Juhu','Bombay',400044,'MAH',3000,200,150,
'Good')"
);

echo "<br>=====<br>";
foreach ($arr as $key) {
    $query = $key;
    $is = mysqli_query($conn, $query);
    if($is) {

```

```

        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possibility) -> " . $key;
    } echo "<br>";
}

echo "<br>=====<br>";
$query = "

SELECT *
FROM information_schema.tables
WHERE table_schema = '$DB_NAME'
AND table_name = 'sales_order'
LIMIT 1;

";

$is = mysqli_query($conn, $query);

if(mysqli_num_rows($is)) {
    echo "sales_order Table Already Exists";
} else {
    $query = "
CREATE table sales_order
(
s_order_no varchar(6) primary key,
s_order_date date,
client_no varchar(6) references client_master(client_no),
dely_addr varchar(25),
salesman_no varchar(6) references salesman_master(salesman_no),
dely_type char(1),
billed_yn char(1),
dely_date date,
order_status varchar(10)
);
";

$is = mysqli_query($conn, $query);
if($is) {
    echo "sales_order Table Created";
} else {
    echo "<br>" . $query . "<br>";
    echo "sales_order Create Table Failed";
}
}

$arr = array(
    "INSERT into sales_order values('019001','1996-01-
12','C00001','','S00001','F','N','1996-01-20','IP')",

```

```

        "INSERT into sales_order values('019002','1996-01-
25','C00002','','S00002','P','N','1996-01-27','C')",
        "INSERT into sales_order values('046865','1996-02-
18','C00003','','S00003','F','Y','1996-02-20','F')",
        "INSERT into sales_order values('019003','1996-04-
03','C00001','','S00001','F','Y','1996-04-07','F')",
        "INSERT into sales_order values('046866','1996-05-
20','C00004','','S00002','P','N','1996-05-22','C')",
        "INSERT into sales_order values('010008','1996-05-
24','C00005','','S00004','F','N','1996-05-26','IP')"
);

echo "<br>=====<br>";
foreach ($arr as $key) {
    $query = $key;
    $is = mysqli_query($conn, $query);
    if($is) {
        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possibility) -> " . $key;
    }
    echo "<br>";
}

echo "<br>=====<br>";
$query = "

SELECT *
FROM information_schema.tables
WHERE table_schema = '$DB_NAME'
AND table_name = 'sales_order_details'
LIMIT 1;

";
$is = mysqli_query($conn, $query);

if(mysqli_num_rows($is)) {
    echo "sales_order_details Table Already Exists";
} else {
    $query = "
    create table sales_order_details
    (
        s_order_no varchar(6) references sales_order(s_order_no),
        product_no varchar(6) references product_master(product_no),
        qty_ordered decimal(8),
        qty_disp decimal(8),
        product_rate decimal(10,2)
    );
";
}

```

```

$ls = mysqli_query($conn, $query);
if($ls) {
    echo "sales_order_details Table Created";
} else {
    echo "<br>" . $query . "<br>";
    echo "sales_order_details Create Table Failed";
}
}

$arr = array(
    "INSERT into sales_order_details
values('O19001','P00001',4,4,525)",
    "INSERT into sales_order_details
values('O19001','P07965',2,1,8400)",
    "INSERT into sales_order_details
values('O19001','P07885',2,1,5250)",
    "INSERT into sales_order_details
values('O19002','P00001',10,0,525)",
    "INSERT into sales_order_details
values('O46865','P07868',3,3,3150)",
    "INSERT into sales_order_details
values('O46865','P07885',3,1,5250)",
    "INSERT into sales_order_details
values('O46865','P00001',10,10,525)",
    "INSERT into sales_order_details
values('O46865','P03453',4,4,1050)",
    "INSERT into sales_order_details
values('O19003','P03453',2,2,1050)",
    "INSERT into sales_order_details
values('O19003','P06734',1,1,12000)",
    "INSERT into sales_order_details
values('O46866','P07965',1,0,8400)",
    "INSERT into sales_order_details
values('O46866','P07975',1,0,1050)",
    "INSERT into sales_order_details
values('O10008','P00001',10,5,525)",
    "INSERT into sales_order_details
values('O10008','P07975',5,3,1050)"
);

echo "<br>=====<br>";
foreach ($arr as $key) {
    $query = $key;
    $ls = mysqli_query($conn, $query);
    if($ls) {
        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possibility) -> " . $key;
    } echo "<br>";
}
?>

```

```
*****
***** Q(3): Exercises computation on table data:
*****  

<?php  

require_once('connection.php');  

echo "<h2>a) . =====</h2>";  

echo "a) Find the name of all clients having 'a' as the second letter in  

their names <br>";  

$query = "select name from client_master where name like '_a%'";  

$result = mysqli_query($conn,$query);  

echo "<br>";  

echo "Query - " . $query;  

if($result){  

    echo "<br>";  

    echo "<h4>Name</h4>";  

    while($fetch = mysqli_fetch_array($result))  

    {  

        echo $fetch[0];  

        echo "<br>";  

    }  

}  

else{  

    echo "Query execution is failed!!";  

}  

echo "<h2>b) . =====</h2>";  

echo "b).Find out the clients who stay in a city whose second letter is  

'a'.<br>";  

$query = "select name from client_master where city like '_a%'";  

$result = mysqli_query($conn,$query);  

echo "<br>";  

echo "Query - " . $query;  

if($result){  

    echo "<br>";  

    echo "<h4>Name</h4>";  

    while($fetch = mysqli_fetch_array($result))  

    {  

        echo $fetch[0];  

        echo "<br>";  

    }  

}  

else{
```

```

        echo "Query execution is failed!!";
    }

echo "<h2>c) . =====</h2>";
echo "c) Find the list of all client who stay in 'Bombay' or
'Delhi'..<br>";

$query = "select name,city from client_master where city='bombay' or
city='delhi' ";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>Name - city</h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>d) . =====</h2>";
echo "d) Print the list of client whose bal_due is greater then value
10000 <br>";

$query = "select name,bal_due from client_master where bal_due >= 10000
";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>Name-bal_due</h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "<br>";
    }
}

```

```

}

else{
    echo "Query execution is failed!!";
}

echo "<h2>e) . =====</h2>";
echo "e) Print the information from sales_order table for order placed in
the month of January.
<br>";

$query = "select s_order_no,s_order_date,client_no from sales_order where
s_order_date in
(select s_order_date from sales_order where MONTH(s_order_date)='1');

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>Order No. - Date - Client No. </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "-";
        echo $fetch[2];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>f) . =====</h2>";
echo "f) Display the order information for client_no 'C00001' and
'C00002' <br>";

$query = "select s_order_no,s_order_date,client_no from sales_order where
client_no = 'c00001' or client_no = 'c00002';";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>Order No. - Date - Client No. </h4>";
    while($fetch = mysqli_fetch_array($result))
    {

```

```

        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "-";
        echo $fetch[2];
        echo "<br>";
    }
}

else{
    echo "Query execution is failed!!";
}

echo "<h2>g) . =====</h2>";
echo "g) Find products whose selling price is greater than 2000 and less
than or equal to 5000. <br>";

$query = "select product_no,description,sell_price from product_master
where sell_price > 2000 or sell_price < 5000";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>prodeuct No. - description - Sell_price </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "-";
        echo $fetch[2];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>h) . =====</h2>";
echo "h) Find products whose selling price is greater than 2000 and less
than or equal to 5000. <br>";

$query = "select product_no,description,sell_price,sell_price +
sell_price*.15 \" new_price \" from product_master where sell_price >
1500";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

```

```

if($result){
    echo "<br>";
    echo "<h4>product No. - description - Sell_price </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "-";
        echo $fetch[2];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>i) . =====</h2>";
echo "i) List the names, city and state of clients who r not in the state
of 'Maharashtra'. <br>";

$query = "select name,city,state from client_master where state != 
'maharashtra' ";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>Name. - city - state </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo $fetch[1];
        echo "-";
        echo $fetch[2];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>j) . =====</h2>";
echo "j) Count the total number of orders. <br>";

$query = "select count(s_order_no) from sales_order_details " ;

$result = mysqli_query($conn,$query);

echo "<br>Query - " . $query;

```

```

if($result){
    echo "<br>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo "Total No. of orders - ";
        echo $fetch[0];
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>k) . =====</h2>";
echo "k) Calculate the average price of all the products. <br>";

$query = "select avg(cost_price) from product_master " ;

$result = mysqli_query($conn,$query);

echo "<br> Query - " . $query ;

if($result){
    echo "<br>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>l) . =====</h2>";
echo "l) Determine the maximum and minimum product prices. Rename the
output as max_price and min_price respectively. <br>";

echo "<br>";
$query = "select min(cost_price) from product_master " ;
$query1 = "select max(cost_price) from product_master " ;
$result = mysqli_query($conn,$query);
$result1 = mysqli_query($conn,$query1);

echo "Query - " . $query;
echo "Query - " . $query1;
if($result) {
    if($result1){
        if(mysqli_num_rows($result)){
            $fetch = mysqli_fetch_row($result);
            $fetch1 = mysqli_fetch_row($result1);
            echo "Min: " . $fetch[0];
            echo "<br>";
        }
    }
}

```

```

                echo "Max: " . $fetch1[0];
            }
            else {
                echo "<br><b>No records found</b><br>";
            }
        }
        else {
            echo "<br>FAILURE -> " . $query2;
        }
    }
else {
    echo "<br>FAILURE -> " . $query1;
} echo "<br>";

echo "<h2>m) =====</h2>";
echo "m) Count the number of products having price greater than or equal
to 1500.<br>";

$query = "select count(*) from product_master where cost_price >= 1500" ;
$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo "<br>";
        echo "Total No. of products which price >= 1500 ";
    echo "<br>";
        echo $fetch[0];
    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>n) =====</h2>";
echo "n) Find all the products whose qty_no_nahd is less than recorder
level. <br>";

$query = "SELECT product_no, description, qty_on_hand, recorder_lvl from
product_master where qty_on_hand < recorder_lvl;" ;

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){

```

```

        echo "<br>";
        echo "<h4>product_no - description - qty_on_hand - recorder_lvl
</h4>";
        while($fetch = mysqli_fetch_array($result))
        {
            echo $fetch[0];
            echo "-";
            echo $fetch[1];
            echo "-";
            echo $fetch[2];
            echo "-";
            echo $fetch[3];
        }
    }
else{
    echo "Query execution is failed!!";
}

?>

```

```
*****
*****
Output :
```

a) . =====  
a) Find the name of all clients having 'a' as the second letter in their names

Query - select name from client\_master where name like '\_a%'  
Name  
Vandana Saitwal  
Basu Navindgi  
Ravi Sreedharan

b) . =====  
b).Find out the clients who stay in a city whose second letter is 'a'.

Query - select name from client\_master where city like '\_a%'  
Name  
Vandana Saitwal

c) . =====  
c) Find the list of all client who stay in 'Bombay' or 'Delhi'..

Query - select name,city from client\_master where city='bombay' or
city='delhi'  
Name - city  
Ivan Bayross-Bombay  
Pramada Jaguste-Bombay  
Basu Navindgi-Bombay

Ravi Sreedharan-Delhi  
Rukmini-Bombay

d) . ======  
d) Print the list of client whose bal\_due is greater than value 10000

Query - select name,bal\_due from client\_master where bal\_due >= 10000  
Name-bal\_due  
Ivan Bayross-15000.00

e) . ======  
e) Print the information from sales\_order table for order placed in the month of January.

Query - select s\_order\_no,s\_order\_date,client\_no from sales\_order where s\_order\_date in (select s\_order\_date from sales\_order where MONTH(s\_order\_date)='1');  
Order No. - Date - Client No.  
O19001-1996-01-12-C00001  
O19002-1996-01-25-C00002

f) . ======  
f) Display the order information for client\_no 'C00001' and 'C00002'

Query - select s\_order\_no,s\_order\_date,client\_no from sales\_order where client\_no = 'c00001' or client\_no = 'c00002';  
Order No. - Date - Client No.  
O19001-1996-01-12-C00001  
O19002-1996-01-25-C00002  
O19003-1996-04-03-C00001

g) . ======  
g) Find products whose selling price is greater than 2000 and less than or equal to 5000.

Query - select product\_no,description,sell\_price from product\_master where sell\_price > 2000 or sell\_price < 5000  
product No. - description - Sell\_price  
P00001-1.44 Floppies-525.00  
P03453-Monitors-12000.00  
P06734-Mouse-1050.00  
P07865-1.22 Floppies-525.00  
P07868-Keyboards-3150.00  
P07885-CD Drive-5250.00  
P07965-540 HDD-8400.00  
P07975-1.44 Drive-1050.00  
P08865-1.22 Drive-1050.00

h) . ======

h) Find products whose selling price is greater than 2000 and less than or equal to 5000.

Query - select product\_no,description,sell\_price,sell\_price +  
sell\_price\*.15 " new\_price " from product\_master where sell\_price > 1500  
product No. - description - Sell\_price  
P03453-Monitors-12000.00  
P07868-Keyboards-3150.00  
P07885-CD Drive-5250.00  
P07965-540 HDD-8400.00

i) . =====

i) List the names, city and state of clients who r not in the state of 'Maharashtra'.

Query - select name,city,state from client\_master where state != 'maharashtra'  
Name. - city - state  
Vandana Saitwal-Madras-Tamil Nadu  
Ravi Sreedharan-Delhi-Delhi

j) . =====

j) Count the total number of orders.

Query - select count(s\_order\_no) from sales\_order\_details  
Total No. of orders - 28

k) . =====

k) Calculate the average price of all the products.

Query - select avg(cost\_price) from product\_master  
3492.22222

l) . =====

l) Determine the maximum and minimum product prices. Rename the output as max\_price and min\_price respectively.

Query - select min(cost\_price) from product\_master Query - select  
max(cost\_price) from product\_master Min: 500.00  
Max: 11280.00

m) . =====

m) Count the number of products having price greater than or equal to 1500.

Query - select count(\*) from product\_master where cost\_price >= 1500

Total No. of products which price >= 1500

n) . =====  
n) Find all the products whose qty\_no\_nahd is less than recorder level.

Query - SELECT product\_no, description, qty\_on\_hand, recorder\_lvl from  
product\_master where qty\_on\_hand < recorder\_lvl;  
product\_no - description - qty\_on\_hand - recorder\_lvl  
P08865-1.22 Drive-2-3

\*\*\*\*\*  
\*\*\*\*\*  
Q(4): Exercise on Date Manipulation:  
\*\*\*\*\*  
\*\*\*\*\*

```
<?php
require_once('connection.php');

echo "<h2>a) . =====</h2>";
echo "a) Display the order number and day on which clients placed their
order<br>";

$query = "select s_order_no,s_order_date from sales_order ";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>order_no. - order_date(day) </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo date('D', strtotime($fetch[1]));
        echo "<br>";

    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>b) . =====</h2>";
echo "b) Display the month (in alphabets) and date when the order must be
delivered. <br>";

$query = "select s_order_no,dely_date from sales_order ";
```

```

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>order_no. - delay_date(month) </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "-";
        echo date('F', strtotime($fetch[1]));
        echo "<br>";

    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>C) . =====</h2>";
echo "C) Display the order_date in the format 'DD-Month-yy'. e.g. 12-
February-96.<br>";

$query = "select s_order_date from sales_order ";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>s_order_date in formate of 12-February-96. </h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo date('d-F-y', strtotime($fetch[0]));
        echo "<br>";

    }
}
else{
    echo "Query execution is failed!!";
}

echo "<h2>d) . =====</h2>";
echo "d) ) Find the date, 15 days after today's date <br>";
echo "<br>";
echo date('d-M-Y', strtotime("+15 days")) . "<br>";

echo "<h2>e) . =====</h2>";

```

```

echo "e) Find the number of days elapsed between today's date and the
delivery date of the orders placed by the clients.<br>";

$query = "select s_order_no,dely_date from sales_order ";

$result = mysqli_query($conn,$query);

echo "<br>";
echo "Query - " . $query;

if($result){
    echo "<br>";
    echo "<h4>order_no = diff. in between today and delivery
date</h4>";
    while($fetch = mysqli_fetch_array($result))
    {
        echo $fetch[0];
        echo "=";
        $date1 = date_create($fetch[1]);
        $date2 = date_create("now");

        $diff = date_diff($date2, $date1);

        echo $diff->format('%R %a days') ;

        echo "<br>";
    }
}
else{
    echo "Query execution is failed!!";
}

?>

*****
*****
Output :
*****
*****



a) . =====
a) Display the order number and day on which clients placed their order

Query - select s_order_no,s_order_date from sales_order

order_no. - order_date(day)

010008-Fri
019001-Fri
019002-Thu
019003-Wed
046865-Sun

```

046866-Mon

- b) . =====  
b) Display the month (in alphabets) and date when the order must be delivered.

Query - select s\_order\_no,dely\_date from sales\_order  
order\_no. - dely\_date(month)

010008-May  
019001-January  
019002-January  
019003-April  
046865-February  
046866-May

- C) . =====  
C) Display the order\_date in the format 'DD-Month-yy'. e.g. 12-February-96.

Query - select s\_order\_date from sales\_order  
s\_order\_date in formate of 12-February-96.

24-May-96  
12-January-96  
25-January-96  
03-April-96  
18-February-96  
20-May-96

- d) . =====  
d) ) Find the date, 15 days after today's date

07-Jul-2020

- e) . =====  
e) Find the number of days elapsed between today's date and the delivery date of the orders placed by the clients.

Query - select s\_order\_no,dely\_date from sales\_order  
order\_no = diff. in between today and delivery date

010008-- 8793 days  
019001-- 8920 days  
019002-- 8913 days  
019003-- 8842 days  
046865-- 8889 days

046866== 8797 days

```
*****
***** Q(5): Exercise on using Having and Group By Clauses:
*****  
  
<?php  
require_once ('connection.php');  
  
echo "<h2> a) .  
=====  
= </h2>" ;  
echo "a) Print the description and total qty sold for each product.  
<br>";  
$query = "SELECT s.product_no,p.description, sum(s.qty_ordered) from  
sales_order_details s,product_master p where p.product_no=s.product_no  
group by s.product_no,p.description";  
  
$result = mysqli_query($conn, $query);  
  
echo "<br>" . $query . "<br><br>" ;  
  
if($result) {  
    echo "<h4>product_no - description - total sold qty</h4>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo $fetch[0];  
            echo "-";  
            echo $fetch[1];  
            echo "-";  
            echo $fetch[2];  
            echo "<br>";  
        }  
    } else {  
        echo "Query execution failed ";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
  
echo "<h2> b) .  
=====  
= </h2>" ;  
echo "b) Find the value of each product sold <br>";  
$query = "SELECT  
s.product_no,p.description,sum(s.qty_disp*s.product_rate) \"Sales Per
```

```

Product\" from sales_order_details s,product_master p where
p.product_no=s.product_no group by
s.product_no,p.description";

$result = mysqli_query($conn, $query);

echo "<br>" . $query . "<br><br>" ;

if($result) {
    echo "<h4>product_no - description - total value of sold
product</h4>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0];
            echo "-";
            echo $fetch[1];
            echo "-";
            echo $fetch[2];
            echo "<br>";
        }
    } else {
        echo "No records found ";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<br>";

echo "<h2> c) .";
=====
= </h2>" ;
echo "c) Calculate the average qty sold for each client that has a
maximum order value of 15000.00
<br>";
$query = "SELECT c.client_no,c.name,avg(s.qty_disp)  from
sales_order_details s ,sales_order so,client_master c where
c.client_no=so.client_no and so.s_order_no=s.s_order_no
group by c.client_no,c.name having
max(s.qty_ordered*s.product_rate)>15000";

$result = mysqli_query($conn, $query);

echo "<br>" . $query . "<br><br>" ;

if($result) {
    echo "<h4>client_no - name - average qty sold </h4>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0];
            echo "-";
            echo $fetch[1];
            echo "-";
            echo $fetch[2];
            echo "<br>";
        }
    }
}

```

```

        } else {
            echo "No records found ";
        }
    } else {
        echo "<br>FAILURE -> " . $query;
    } echo "<br>";

echo "<h2> d) .";
=====
= </h2>" ;
echo "d) Calculate the average qty sold for each client that has a
maximum order value of 15000.00
<br>";
$query = "SELECT
s.s_order_no,s.s_order_date,sum(so.qty_ordered*so.product_rate)\\"Order
Billed\",sum(so.qty_disp*so.product_rate) \"Total Amount\" from
sales_order s, sales_order_details so
where so.s_order_no=s.s_order_no and s.billed_yn='Y' and
month(s_order_date)='01'
group by s.s_order_no,s.s_order_date;";

$result = mysqli_query($conn, $query);

echo "<br>" . $query . "<br><br>" ;

if($result) {
    echo "<h4>client_no - name - average qty sold </h4>";
    if(mysqli_num_rows($result)) {
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0];
            echo "-";
            echo $fetch[1];
            echo "-";
            echo $fetch[2];
            echo "-";
            echo $fetch[3];
            echo "<br>";
        }
    } else {
        echo "No records found";
    }
} echo "<br>";

?>

```

```

*****
*****
Output :
*****
*****
```

a) .  
=====

=

a) Print the description and total qty sold for each product.

```
SELECT s.product_no,p.description, sum(s.qty_ordered) from  
sales_order_details s,product_master p where p.product_no=s.product_no  
group by s.product_no,p.description
```

product\_no - description - total sold qty

```
P00001-1.44 Floppies-68  
P03453-Monitors-12  
P06734-Mouse-2  
P07868-Keyboards-6  
P07885-CD Drive-10  
P07965-540 HDD-6  
P07975-1.44 Drive-12
```

b) .  
=====

=

b) Find the value of each product sold

```
SELECT s.product_no,p.description,sum(s.qty_disp*s.product_rate) "Sales  
Per Product" from sales_order_details s,product_master p where  
p.product_no=s.product_no group by s.product_no,p.description
```

product\_no - description - total value of sold product

```
P00001-1.44 Floppies-19950.00  
P03453-Monitors-12600.00  
P06734-Mouse-24000.00  
P07868-Keyboards-18900.00  
P07885-CD Drive-21000.00  
P07965-540 HDD-16800.00  
P07975-1.44 Drive-6300.00
```

c) .  
=====

=

c) Calculate the average qty sold for each client that has a maximum  
order value of 15000.00

```
SELECT c.client_no,c.name,avg(s.qty_disp) from sales_order_details s  
,sales_order so,client_master c where c.client_no=so.client_no and  
so.s_order_no=s.s_order_no group by c.client_no,c.name having  
max(s.qty_ordered*s.product_rate)>15000
```

client\_no - name - average qty sold

```
C00001-Ivan Bayross-1.8000
```

C00003-Pramada Jaguste-4.5000

d) .  
=====

=

d) Calculate the average qty sold for each client that has a maximum order value of 15000.00

```
SELECT
s.s_order_no,s.s_order_date,sum(so.qty_ordered*so.product_rate) "Order
Billed",sum(so.qty_disp*so.product_rate) "Total Amount" from sales_order
s, sales_order_details so where so.s_order_no=s.s_order_no and
s.billed_yn='Y' and month(s_order_date)='01' group by
s.s_order_no,s.s_order_date;
```

client\_no - name - average qty sold

No records found

```
*****
*****
Q(6): Exercise on Joins and Correlation:
*****
*****
```

```
<?php
require_once ('connection.php');

echo "a)
=====
=<br>";
echo "a) Find out the products, which have been sold to 'Ivan Bayross'.";
$query = "SELECT d.product_no,p.description from sales_order_details d ,
product_master p , client_master c,sales_order s
where p.product_no=d.product_no and s.s_order_no=d.s_order_no and
c.client_no=s.client_no and c.name='Ivan Bayross';";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        echo "<h4>product_no - product_description </h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>" ;
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
}
```

```

} else {
    echo "Query execution failed <br>";
} echo "<br>";

echo "b)
=====
=<br>";
echo "b) Find out the products and their quantities that will have to be
delivered in the current month.";

$currmonth = date('m', strtotime("now"));

$query = "SELECT d.product_no,p.description,sum(d.qty_ordered)
from sales_order_details d,sales_order s,product_master p
where p.product_no=d.product_no and s.s_order_no=d.s_order_no and
MONTH(dely_date) = $currmonth
group by d.product_no,p.description;";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        echo "<h4>product_no - product_description - qty_ordered
</h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "-";
            echo $fetch[2] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "Query execution failed <br>";
} echo "<br>";

echo "c)
=====
=<br>";
echo "c) Find the product_no and description of constantly sold i.e.
rapidly moving products.";
$query = "SELECT distinct p.product_no,p.description from product_master
p ,sales_order_details d
where p.product_no=d.product_no;";

$result = mysqli_query($conn, $query);

```

```

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        echo "<h4>product_no - product_description </h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "Query execution failed <br>";
}
echo "<br>";

echo "d)
=====
=<br>";
echo "d) Find the name of clients who have purchase 'CD Drive'.";
$query = "SELECT distinct s.client_no,c.name from sales_order_details
d,sales_order s,product_master p,client_master c
where p.product_no=d.product_no and s.s_order_no=d.s_order_no and
c.client_no=s.client_no and p.description='CD Drive'";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        echo "<h4>client_no - client_name </h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
}
else {
    echo "Query execution failed : ";
}
echo "<br>";

echo "e)
=====
=<br>";

```

```

echo "e) List the product_no and order_no of customers having qty_ordered
less than 5 from the sales_order_details table for the product '1.44
Floppies'.";
$query = "SELECT d.product_no,d.s_order_no from sales_order_details
d,sales_order s,product_master p
where s.s_order_no=d.s_order_no and p.product_no=d.product_no and
d.qty_ordered<5 and p.description='1.44 Floppies';";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        echo "<h4>product_no - order_no </h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "Query execution failed : ";
}
echo "<br>";

echo "f)
=====
=<br>";
echo "f) Find the products and their quantities for the orders placed by
'Ivan Bayross' and 'Vandana Saitwal'.";
$query = "SELECT d.product_no,p.description,sum(qty_ordered)\\"Qty
Ordered\""
from sales_order_details d,sales_order s,product_master p,client_master c
where s.s_order_no=d.s_order_no and p.product_no=d.product_no and
c.client_no=s.client_no
and (c.name='Ivan Bayross' or c.name='Vandana Saitwal')
group by d.product_no,p.description;
";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        echo "<h4>product_no - product_description - qty_ordered
</h4>" ;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "<->";
            echo $fetch[1] . "<->";
        }
    }
}

```

```

                echo $fetch[2] . "<br>";
            }
        } else {
            echo "<br><b>No records found</b><br>";
        }
    } else {
        echo "Query execution failed : ";
    } echo "<br>";

echo "g)
=====
=<br>";
echo "g) Find the products and their quantities for the orders placed by
client_no 'C00001' and 'C00002'.";
$query = "SELECT s.client_no,d.product_no,p.description
,sum(qty_ordered)\\"Qty_ordered\\"
from sales_order s,sales_order_details d,product_master p,client_master c
where s.s_order_no=d.s_order_no and d.product_no=p.product_no and
s.client_no=c.client_no
group by s.client_no,d.product_no,p.description
having s.client_no='C00001' or s.client_no='C00002';";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)) {
        echo "<h4>client_no - product_no - product_description </h4>";
;
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "-";
            echo $fetch[2] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "Query execution failed : ";
} echo "<br>";
?>

*****
*****
Output :
*****
*****
```

a)

=

a) Find out the products, which have been sold to 'Ivan Bayross'.

```
SELECT d.product_no,p.description from sales_order_details d ,  
product_master p , client_master c,sales_order s where  
p.product_no=d.product_no and s.s_order_no=d.s_order_no and  
c.client_no=s.client_no and c.name='Ivan Bayross';
```

```
product_no - product_description  
P00001-1.44 Floppies  
P07965-540 HDD  
P07885-CD Drive  
P00001-1.44 Floppies  
P07965-540 HDD  
P07885-CD Drive  
P03453-Monitors  
P06734-Mouse  
P03453-Monitors  
P06734-Mouse
```

b)

```
=====
```

=

b) Find out the products and their quantities that will have to be delivered in the current month.

```
SELECT d.product_no,p.description,sum(d.qty_ordered) from  
sales_order_details d,sales_order s,product_master p where  
p.product_no=d.product_no and s.s_order_no=d.s_order_no and  
MONTH(dely_date) = 06 group by d.product_no,p.description;
```

No records found

c)

```
=====
```

=

c) Find the product\_no and description of constantly sold i.e. rapidly moving products.

```
SELECT distinct p.product_no,p.description from product_master p  
,sales_order_details d where p.product_no=d.product_no;
```

```
product_no - product_description  
P00001-1.44 Floppies  
P07965-540 HDD  
P07885-CD Drive  
P07868-Keyboards  
P03453-Monitors  
P06734-Mouse  
P07975-1.44 Drive
```

d)

```
=====
```

=

d) Find the name of clients who have purchase 'CD Drive'.

```
SELECT distinct s.client_no,c.name from sales_order_details d,sales_order
s,product_master p,client_master c where p.product_no=d.product_no and
s.s_order_no=d.s_order_no and c.client_no=s.client_no and
p.description='CD Drive'
```

```
client_no - client_name
C00001
C00003
```

e)

```
=====
=
e) List the product_no and order_no of customers having qty_ordered less
than 5 from the sales_order_details table for the product '1.44
Floppies'.
```

```
SELECT d.product_no,d.s_order_no from sales_order_details d,sales_order
s,product_master p where s.s_order_no=d.s_order_no and
p.product_no=d.product_no and d.qty_ordered<5 and p.description='1.44
Floppies';
```

```
product_no - order_no
P00001-019001
P00001-019001
```

f)

```
=====
=
f) Find the products and their quantities for the orders placed by 'Ivan
Bayross' and 'Vandana Saitwal'.
```

```
SELECT d.product_no,p.description,sum(qty_ordered) "Qty Ordered" from
sales_order_details d,sales_order s,product_master p,client_master c
where s.s_order_no=d.s_order_no and p.product_no=d.product_no and
c.client_no=s.client_no and (c.name='Ivan Bayross' or c.name='Vandana
Saitwal') group by d.product_no,p.description;
```

```
product_no - product_description - qty_ordered
P00001<->1.44 Floppies<->28
P03453<->Monitors<->4
P06734<->Mouse<->2
P07885<->CD Drive<->4
P07965<->540 HDD<->4
```

g)

```
=====
=
g) Find the products and their quantities for the orders placed by
client_no 'C00001' and 'C00002'.
```

```
SELECT s.client_no,d.product_no,p.description
,sum(qty_ordered) "Qty_ordered" from sales_order s,sales_order_details
```

```

d,product_master p,client_master c where s.s_order_no=d.s_order_no and
d.product_no=p.product_no and s.client_no=c.client_no group by
s.client_no,d.product_no,p.description having s.client_no='C00001' or
s.client_no='C00002';

client_no - product_no - product_description
C00001-P00001-1.44 Floppies
C00001-P03453-Monitors
C00001-P06734-Mouse
C00001-P07885-CD Drive
C00001-P07965-540 HDD
C00002-P00001-1.44 Floppies

*****
***** Q(7): Exercise on Sub-queries:
***** <?php
require_once ('connection.php');

echo " a)
=====
=<br> ";
echo "a) Find the product_no and description of non-moving products i.e.
products not being sold.";
$query = "SELECT product_no,description from product_master
where product_no not in(select product_no from sales_order_details);";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>";

if($result) {
    if(mysqli_num_rows($result)){
        echo " <h4>product_no - description </h4>";
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

echo " b)
=====
=<br> ";
echo "b) Find the customer name, address1, address2, city and pin code
for the client who has placed order no '019001'.";
```

```

$query = "SELECT name,address1,address2,city,pincode from client_master
where client_no in (select client_no from sales_order
where s_order_no='019001');

";
$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>";

if($result) {
    if(mysqli_num_rows($result)){
        echo " <h4>name - city -pincode </h4>";
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "-";
            echo $fetch[2] . "-";
            echo $fetch[3] . "-";
            echo $fetch[4] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

echo " c)
=====
=<br> ";
echo "c) Find the client names who have placed orders before the month of
May'96.";
$query = "SELECT client_no,name from client_master where client_no
in(select client_no from sales_order
where s_order_date < '1996-05-01');";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>";

if($result) {
    if(mysqli_num_rows($result)){
        echo " <h4>client_no - name </h4>";
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}

```

```

} echo "<br>";

echo " d)
=====
=<br> " ;
echo "d) Find out if the product '1.44 Drive' has been ordered by any
client and print the clint_no, name to whom it was sold.";
$query = "SELECT client_no,name from client_master where client_no
in (select client_no from sales_order where s_order_no in (select
s_order_no
from sales_order_details where product_no in(select product_no
from product_master where description='1.44 Drive')));
";
$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>";

if($result) {
    if(mysqli_num_rows($result)){
        echo " <h4>client_no - name </h4>";
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . "-";
            echo $fetch[1] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<br>";

echo " e)
=====
=<br> " ;
echo "e) Find the names of clients who have placed orders worth Rs.10000
or more.";
$query = "SELECT name from client_master where client_no in(select
client_no from sales_order
where s_order_no in (select s_order_no from sales_order_details
where (qty_ordered*product_rate)>=10000));
";
$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>";

if($result) {

```

```

if(mysqli_num_rows($result)){
    echo "<h4>name</h4>";
    while($fetch = mysqli_fetch_array($result)) {
        echo $fetch[0] . "<br>";
    }
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";
?>

```

\*\*\*\*\*  
\*\*\*\*\*

Output:

\*\*\*\*\*  
\*\*\*\*\*

a)

=====

=

a) Find the product\_no and description of non-moving products i.e.  
products not being sold.

```
SELECT product_no,description from product_master where product_no not
in(select product_no from sales_order_details);
```

product\_no - description

P07865-1.22 Floppies

P08865-1.22 Drive

b)

=====

=

b) Find the customer name, address1, address2, city and pin code for the  
client who has placed order no '019001'.

```
SELECT name,address1,address2,city,pincode from client_master where
client_no in (select client_no from sales_order where
s_order_no='019001');
```

name - city -pincode

Ivan Bayross---Bombay-400054

c)

=====

=

c) Find the client names who have placed orders before the month of  
May'96.

```
SELECT client_no,name from client_master where client_no in(select
client_no from sales_order where s_order_date < '1996-05-01');
```

```
client_no - name  
C00001-Ivan Bayross  
C00002-Vandana Saitwal  
C00003-Pramada Jaguste
```

d)

```
=====  
=  
d) Find out if the product '1.44 Drive' has been ordered by any client  
and print the client_no, name to whom it was sold.
```

```
SELECT client_no, name from client_master where client_no in (select  
client_no from sales_order where s_order_no in (select s_order_no from  
sales_order_details where product_no in (select product_no from  
product_master where description='1.44 Drive')));
```

```
client_no - name  
C00004-Basu Navindgi  
C00005-Ravi Sreedharan
```

e)

```
=====  
=  
e) Find the names of clients who have placed orders worth Rs.10000 or  
more.
```

```
SELECT name from client_master where client_no in (select client_no from  
sales_order where s_order_no in (select s_order_no from  
sales_order_details where (qty_ordered*product_rate)>=10000));
```

```
name  
Ivan Bayross  
Pramada Jaguste
```

```
*****  
*****  
*****  
Q(8): Exercise on Constructing Sentences with data:
```

```
*****  
*****  
=<?php  
require_once ('connection.php');  
  
echo "a)  
=====  
==<br> ;  
echo "a) Print information from product_master, sales_order_detail tables  
in the following format for all the records:<br>  
<b>{Description} worth Rs. {total sales for the product} was sold.</b>";
```

```

$query = "SELECT p.description, sum(s.qty_disp * s.product_rate) FROM
sales_order_details s, product_master p WHERE p.product_no =
s.product_no GROUP BY s.product_no, p.description ";
$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . " worth Rs.";
            echo $fetch[1] . " was sold <br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "Query execution failed : ";
}
echo "<br>";

echo "c)
=====
==<br> ";
echo "c) Print information from client_master, product_master,
sales_order tables in the following format for all the records:
{cust_name} has placed order {order_no} on {order_date}.";
$query = "SELECT c.name, s.s_order_no, s.s_order_date from client_master
c, sales_order s WHERE c.client_no = s.client_no";

$result = mysqli_query($conn, $query);

echo "<br><br>" . $query . "<br><br>" ;

if($result) {
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo $fetch[0] . " has placed the ordered ";
            echo $fetch[1] . " on ";
            echo $fetch[2] . "<br>";
        }
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<br>";

?>

```

```
*****
```

```
*****
```

Output:

```
*****
```

```
*****
```

a)

```
=====
```

==

a) Print information from product\_master, sales\_order\_detail tables in the following format for all the records:

{Description} worth Rs. {total sales for the product} was sold.

```
SELECT p.description, sum(s.qty_disp * s.product_rate) FROM sales_order_details s, product_master p WHERE p.product_no = s.product_no GROUP BY s.product_no, p.description
```

1.44 Floppies worth Rs.19950.00 was sold

Monitors worth Rs.12600.00 was sold

Mouse worth Rs.24000.00 was sold

Keyboards worth Rs.18900.00 was sold

CD Drive worth Rs.21000.00 was sold

540 HDD worth Rs.16800.00 was sold

1.44 Drive worth Rs.6300.00 was sold

c)

```
=====
```

==

c) Print information from client\_master, product\_master, sales\_order tables in the following format for all the records: {cust\_name} has placed order {order\_no} on {order\_date}.

```
SELECT c.name, s.s_order_no, s.s_order_date from client_master c, sales_order s WHERE c.client_no = s.client_no
```

Ravi Sreedharan has placed the ordered 010008 on 1996-05-24

Ivan Bayross has placed the ordered 019001 on 1996-01-12

Vandana Saitwal has placed the ordered 019002 on 1996-01-25

Ivan Bayross has placed the ordered 019003 on 1996-04-03

Pramada Jaguste has placed the ordered 046865 on 1996-02-18

Basu Navindgi has placed the ordered 046866 on 1996-05-20

```
*****
```

```
*****
```

ASSIGNMENT - 4

```
*****
```

```
*****
```

Q(1):Write a php script to upload a file.

```
*****
```

```
*****
```

p1.html:

```

<!DOCTYPE html>
<html>
    <body>
        <form action="p1.php" method="post"
        enctype="multipart/form-data">
            <h2>File Upload</h2>
            Select image to upload:
            <input type="file" name="fileToUpload"
            id="fileToUpload">
            <input type="submit" value="Upload Image"
            name="submit">
        </form>
    </body>
</html>

p1.php:

<?php
    $target_file =
basename($_FILES["fileToUpload"]["name"]);
    if
(move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $target_file)) {
        echo "Upload success";
    } else {
        echo "Sorry, there was an error
uploading your file.";
    }
?>

*****
*****
Q(2):Write a php script which reads and display each directory as a
bulleted list.
*****
*****
<?php
$cwd = getcwd();
$dir = scandir($cwd);
foreach($dir as $d)
{
    if(is_dir($d))
        echo "<br> $d";
}
?>

*****
*****
Q(3):Write a php script which reads and display each file of a specified
directory.
*****
*****
<?php
$cwd = getcwd();
$dir = scandir($cwd);

```

```

        foreach($dir as $d)
        {
            if(is_file($d))
                echo "<br> $d";
        }
    ?>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(4):Write a php script which reads and display each file details of a specified directory. The file details include file last access date, last modified date, owner etc.  
\*\*\*\*\*  
\*\*\*\*\*

```

<?php
$cwd = getcwd();
$dir = scandir($cwd);
foreach($dir as $d)
{
    if(is_file($d))
        echo "<br>" . $d. " create date : ".date('d-m-Y',fileatime($d))." access date : ".date('d-m-Y',fileatime($d))." author : ".fileowner($d);
}
?>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(5):Write a php script which reads and display each file of each directory.  
\*\*\*\*\*  
\*\*\*\*\*

```

<?php
lists(getcwd());
function lists($dir){
    $ffs = scandir($dir);
    unset($ffs[array_search('.', $ffs, true)]);
    unset($ffs[array_search '..', $ffs, true]]);
    foreach($ffs as $ff){
        if(is_dir($dir.'/'.$ff)) {
            echo "<br/>$ff<br/>";
            lists($dir.'/'.$ff);
            echo "<br/>";
        }
        else
            echo $ff."<br/>";
    }
}
?>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(6):Write a program to create, copy and delete a directory using php.

```
*****
*****<?php
    mkdir("xyz");
    function copyr($source, $dest) {
        if (is_link($source))
            return symlink(readlink($source), $dest);
        if (is_file($source))
            return copy($source, $dest);
        if (!is_dir($dest))
            mkdir($dest);
        $dir = dir($source);
        while (false !== $entry = $dir->read()) {
            if ($entry == '.' || $entry == '..')
                continue;
            copyr("$source/$entry", "$dest/$entry");
        }
        $dir->close();
        return true;
    }
    copyr("xyz", "abc");
    rmdir("xyz");
?>
```

\*\*\*\*\*  
\*\*\*\*\*

Q(10):Create a database in named Samay in mysql.The samay database has a table named Watch.In the Watch table perform the followings:

- i. insert a record with date and time
- ii. Insert a record with only date
- iii. Insert a record with only time
- iv. Retrieve a record which will display only date in the format dd/mm/yyyy
- v. Retrieve a record which will display date in the format mm/dd/yyyy
- vi. Retrieve a record which will display date in the format yyyy-mm-dd
- vii. Retrieve a record which will display date and time in the format dd/mm/yyyy hh:mi:ss
- viii. What is the date of a record in which you have inserted time only?

What is the time of a record in which you have inserted date only?

\*\*\*\*\*  
\*\*\*\*\*

```
<?php
    $link=mysqli_connect("localhost","root","");
    die(mysqli_error($link));
    mysqli_query($link,"create database if not exists
samay") or die(mysqli_error($link));
    mysqli_select_db($link,"samay") or
die(mysqli_error($link));
    mysqli_query($link,"create table if not exists
watch(`date` date)") or die(mysqli_error($link));
```

```

echo " <h2> insert a record with date and time </h2> ";
$date = date("Y-m-d H:i:s");
$insert = "INSERT INTO watch (date) VALUES ('$date')";
if (mysqli_query($link,$insert))
    echo "record inserted data $date";
else
    echo "Failed";

echo " <h2> Insert a record with only date </h2> ";
$date = date('Y-m-d');
$insert = "INSERT INTO watch (date) VALUES ('$date')";
if (mysqli_query($link,$insert))
    echo "record inserted date $date";
else
    echo "Failed";

echo " <h2> Insert a record with only Time </h2> ";
date_default_timezone_set("Asia/Kolkata");
$date = date("H:m:s");
$insert = "INSERT INTO watch (date) VALUES ('$date')";
if (mysqli_query($link,$insert))
    echo "record inserted time $date";
else
    echo "Failed";

echo " <h2> Retrieve a record which will display only
date in the format dd/mm/yyyy </h2> ";
$sql = "SELECT DATE_FORMAT(date, '%d/%m/%Y') FROM
watch";
$result = mysqli_query($link,$sql);
while ($row = mysqli_fetch_array($result)) {
    if($row[0] == '00/00/0000')
        continue;
    echo $row[0]."<br>";
}

echo " <h2> Retrieve a record which will display date in
the format mm/dd/yyyy </h2> ";
$sql = "SELECT DATE_FORMAT(date, '%m/%d/%Y') FROM
watch";
$result = mysqli_query($link,$sql);
while ($row = mysqli_fetch_array($result)) {
    if($row[0] == '00/00/0000')
        continue;
    echo $row[0]."<br>";
}

echo " <h2> Retrieve a record which will display date in
the format yyyy-mm-dd </h2> ";
$sql = "SELECT DATE_FORMAT(date, '%Y-%m-%d') FROM
watch";
$result = mysqli_query($link,$sql);
while ($row = mysqli_fetch_array($result)) {
    if($row[0] == '0000-00-00')

```

```

        continue;
        echo $row[0]."<br>";
    }

echo " <h2> Retrieve a record which will display date
and time in the format dd/mm/yyyy hh:mi:ss </h2> ";
$sql = "SELECT DATE_FORMAT(date, '%d/%m/%y %h:%i:%s')
FROM watch";
$result = mysqli_query($link,$sql);
while ($row = mysqli_fetch_array($result)) {
    echo $row[0]."<br>";
}
?>

```

\*\*\*\*\*  
\*\*\*\*\*  
Q(13):Write a php script which allows user to store one or more items in  
a shopping cart. When user click on continue button it moves to the  
previous page and allows user to change quantity of selected items. If  
user click on show cart button it will display shopping cart with items.  
\*\*\*\*\*  
\*\*\*\*\*

```

dbcontroller.php :-  

<?php
    class DBController {
        private $host = "localhost";
        private $user = "root";
        private $password = "";
        private $database = "samay";
        private $connection = "";

        function __construct() {
            $conn = $this->connectDB();
            $this->connection = $conn;
        }

        function connectDB() {
            $conn = mysqli_connect($this-
>host,$this->user,$this->password,$this->database);
            return $conn;
        }

        function runQuery($query) {
            $result = mysqli_query($this-
>connection,$query);
            while($row=mysqli_fetch_assoc($result))
{
                $resultset[] = $row;
            }
            if(!empty($resultset))
                return $resultset;
        }
    }

```

```

        function numRows($query) {
            $result = mysqli_query($this-
>connection,$query);
            $rowcount = mysqli_num_rows($result);
            return $rowcount;
        }
    }
?>
```

index..php :-

```

<?php
    session_start();
    require_once("dbcontroller.php");
    $db_handle = new DBController();
    if(!empty($_GET["action"])) {
        switch($_GET["action"]) {
            case "add":
                if(!empty($_POST["quantity"])) {
                    $productByCode =
$db_handle->runQuery("SELECT * FROM tblproduct WHERE code='".
$_GET["code"] . "'");
                    $itemArray =
array($productByCode[0] ["code"]=>array('name'=>$productByCode[0] ["name"],
'code'=>$productByCode[0] ["code"], 'quantity'=>$_POST["quantity"],
'price'=>$productByCode[0] ["price"]));

```

```

                    if(!empty($_SESSION["cart_item"])) {
                        if(in_array($productByCode[0] ["code"], $_SESSION["cart_item"])) {
                            foreach($_SESSION["cart_item"] as $k => $v) {
                                if($productByCode[0] ["code"] == $k)
                                    $_SESSION["cart_item"][$k] ["quantity"] = $_POST["quantity"];
                            }
                        } else
                            $_SESSION["cart_item"] =
array_merge($_SESSION["cart_item"],$itemArray);
                    } else
                        $_SESSION["cart_item"] = $itemArray;
                }
            }
        }
    }
?>
<HTML>
    <HEAD>
```

```

        <TITLE>Simple PHP Shopping Cart</TITLE>
        <link href="style.css" type="text/css"
rel="stylesheet" />
    </HEAD>
    <BODY>
        <?php
            $session_items = 0;
            if (!empty($_SESSION["cart_item"])) {
                $session_items =
count($_SESSION["cart_item"]);
            }
        ?>
        <div id="product-grid">
            <div class="top_links">
                <a href="shopping_cart.php"
title="Cart">View Cart</a><br>
                Total Items = <?php echo
$session_items; ?>
            </div>
            <div class="txt-heading">Products</div>
            <?php
                $product_array = $db_handle-
>runQuery("SELECT * FROM tblproduct ORDER BY id ASC");
                if (!empty($product_array)) {
                    foreach($product_array as
$key=>$value) {
                ?>
                    <div class="product-item">
                        <form method="post"
action="index.php?action=add&code=<?php echo
$product_array[$key]["code"]; ?>">
                            <div class="product-
image">"></div>
                            <div><strong><?php echo
$product_array[$key]["name"]; ?></strong></div>
                            <div class="product-
price"><?php echo "$". $product_array[$key]["price"]; ?></div>
                            <div><input type="text"
name="quantity" value="1" size="2" /><input type="submit" value="Add to
cart" class="btnAddAction" /></div>
                        </form>
                    </div>
                }
            }
        ?>
    </div>
    </BODY>
</HTML>

```

shopping\_cart.php :-

```

<?php
    session_start();

```

```

require_once("dbcontroller.php");
$db_handle = new DBController();
if(!empty($_GET["action"])) {
    switch($_GET["action"]) {
        case "remove":

if(!empty($_SESSION["cart_item"])) {

foreach($_SESSION["cart_item"] as $k => $v) {
    if($_GET["code"]
== $k)

unset($_SESSION["cart_item"][$k]);

if(empty($_SESSION["cart_item"]))
unset($_SESSION["cart_item"]);
}
}
break;
case "empty":
unset($_SESSION["cart_item"]);
break;
case "edit":
$total_price = 0;
foreach ($_SESSION['cart_item']
as $k => $v) {
    if($_POST["code"] == $k) {
        if($_POST["quantity"] ==
'0') {

unset($_SESSION["cart_item"][$k]);
    } else {

$_SESSION['cart_item'][$k]["quantity"] = $_POST["quantity"];
    }
}
$total_price +=
$_SESSION['cart_item'][$k]["price"] *
$_SESSION['cart_item'][$k]["quantity"];

}
if($total_price!=0 &&
is_numeric($total_price)) {
    print "$" .
number_format($total_price,2);
    exit;
}
break;
}
}
?>
<HTML>
<HEAD>

```

```

        <TITLE>Simple PHP Shopping Cart</TITLE>
        <link href="style.css" type="text/css"
rel="stylesheet" />
    </HEAD>
    <BODY>
        <div id="shopping-cart">
            <div class="txt-heading">Shopping Cart
</div>
        <form name="frmCartEdit"
id="frmCartEdit">
            <?php
                $total_price = 0.00;

            if(isset($_SESSION["cart_item"])){
                foreach ($_SESSION["cart_item"]
as $item) {
                    $product_info = $db_handle-
>runQuery("SELECT * FROM tblproduct WHERE code = '" . $item["code"] .
"'");
                    $total_price +=
                    $item["price"] * $item["quantity"];
                }
            }
            <div class="product-item"
onMouseOver="document.getElementById('remove<?php echo $item["code"]; ?>').style.display='block';"
onMouseOut="document.getElementById('remove<?php echo $item["code"]; ?>').style.display='';" >
                <div class="product-
image">"></div>
                <div><strong><?php echo
$item["name"]; ?></strong></div>
                <div class="product-
price"><?php echo "$".$item["price"]; ?></div>
                <div>Quantity: <input
type="text" name="quantity" id="<?php echo $item["code"]; ?>" value="<?php echo $item["quantity"]; ?>" size="2"
onBlur="saveCart(this);"
                <div
class="btnRemoveAction" id="remove<?php echo $item["code"]; ?>"><a
href="shopping_cart.php?action=remove&code=<?php echo $item["code"]; ?>" title="Remove
from Cart">x</a></div>
                </div>
            <?php
            }
        }
        <?>
        </form>
        <div class="cart_footer_link">
            <div>Total Price: <span
id="total_price"><?php echo "$". number_format($total_price,2);
?></span></div>
            <a
href="shopping_cart.php?action=empty">Clear Cart</a>

```

```
                <a href="index.php"
title="Cart">Continue Shopping</a>
                    </div>
                </div>
                <script src="http://code.jquery.com/jquery-
1.10.2.js"></script>
                <script>
                    function saveCart(obj) {
                        var quantity = $(obj).val();
                        var code = $(obj).attr("id");
                        $.ajax({
                            url: "?action=edit",
                            type: "POST",
                            data:
                                'code=' + code + '&quantity=' + quantity,
                            success: function(data,
                                status) {$("#total_price").html(data)},
                            error: function () {
                                alert("Problen in sending reply!")
                            }
                        })
                    }
                </script>
            </BODY>
        </HTML>
*****
*****
```