

# ***Department of Computer Science***

Gujarat University



## ***Certificate***

Roll No: 30

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

This is to certify that Mr./Ms. **Rathod Ajinkya** 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 Development** towards partial fulfilment of his/her Degree of Masters in Computer Applications.

Date of Submission: **02/07/2020**

Internal Faculty

Head of Department

Department Of Computer Science  
Rollwala Computer Centre  
Gujarat University

MCA - II

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

**Name: - Ajinkya Rathod**

Roll No.: - 30

**Exam Seat No.: -**

**DEPARTMENT OF COMPUTER SCIENCE  
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M.C.A. – II**

**ROLL NO : 30**

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**SUBJECT : WEB APPLICATION AND DEVELOPMENT**

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	<b><u>ASSIGNMENT – 1</u></b>	<b>48</b>		
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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	i) Display all the types and price.			
	ii) Sort the array by price and display.			
	iii). Sort the array by milk type and display			
11.	Create a 2-D array which stores the distance between Source and Destination of five cities in KM. Allows user to chose source and Destination from Drop Down list. The script should display correct distance between the two cities.			
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). Display total cards by their type and rank in ascending and descending order. Then shuffle it and display the cards.			
13.	Load the student's details from studinfo.txt to an array and display all students information.			
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			
15.	Write a simple php script which evaluates following string functions and display the output(all string manipulation function).			
16.	Write a php script which ask user to enter username and password. Validate that username and password .			

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	<b><u>ASSIGNMENT – 2</u></b>	<b>101</b>		
1.	Write a php script using function to calculate discount amount  And net payable amount. All product details entered by the  user.			
2.	Write a PHP script file which make your pages have the  same look. [Hint: use require]			
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			
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			
5.	Write a program to calculate factorial value by using  recursive function.			
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.			
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			
8.	sing 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.			
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.			
	<b>ASSIGNMENT – 3</b>	<b>156</b>		
1	Create the tables described below and insert the data : Client_master, Product_master,salesman_master, Sale_order , sale_order_details			
2	Insert A record into table			
3	Exercises computation on table data:			
a).	Find the name of all clients having ‘a’ as the second letter in their names			
b).	Find out the clients who stay in a city whose second letter is ‘a’.			
c).	Find the list of all client who stay in ‘Bombay’ or ‘Delhi’			
d).	Print the list of client whose bal_due is greater then value 10000			
e).	Print the information from sales_oeder table for order placed in the month of January			
f).	Display the order information for client_no ‘C00001’ and ‘C00002’			
g).	Find products whose selling price is greater than 2000 and less than or equal to 5000.			
h).	Find products whose selling price is more than 1500.			

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Calculate a new selling price as, original selling price * .15.		
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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.			
4	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. 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.			
5	Exercise on using Having and Group By Clauses:			
a).	Print the description and total qty sold for each product.			

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

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	code for the client who has placed order no ‘O19001’.			
c).	Find the client names who have placed orders before the month of May’96			
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			
e).	Find the names of clients who have placed orders worth Rs.10000 or more			
8	Exercise on Constructing Sentences with data:			
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.			
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><u>ASSIGNMENT – 4</u></b>		<b>128</b>		
1).	Write a php script to upload a file			
2).	Write a php script which reads and display each directory as a bulleted list.			
3).	Write a php script which reads and display each file of a specified directory			
4).	Write a php script which reads and display each file			

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	e details of a specified directory. The file details include			
	file last access date, last modified date, owner etc.			
5).	Write a php script which reads and display each file of each directory.			
6).	Write a program to create, copy and delete a directory using php.			
7).	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 data 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?			
8).	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.			

## Assignment - 1

Q1 Write the full form of PHP. Which version of PHP you are using?

Ans. PHP - Hypertext Preprocessor

- I am using PHP version 7.0 which is released at 3<sup>rd</sup> Dec 2015.
- PHP is Hypertext Preprocessor, earlier called as 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.

Q2 List and explain strength of PHP

Ans 1. Performance

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

2. Scalability

PHP has "shared nothing" architecture. This means that you can effectively and cheaply implement horizontal scaling with large no. of commodity server.

### 3. Database Integration.

PHP has native connection available to many database system.

### 4. Built in libraries

Because PHP was designed for use on the Web, it has many inbuilt infunction for performing many useful web related tasks.

### 5. Cost

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

### 6. Object Oriented support

PHP version 5 has well designed object oriented feature.

Q3

List and explain the strength of MySQL

Ans

#### 1) Data Security

MySQL is globally renowned for being the more secure and reliable database management system used in popular web application like wordpress, drupal, facebook & twitter.

2

3.

4.

5.

6.

7

## 2. Performance

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

## 3. Low Cost

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

## 4. Easy to use

Most modern database use SQL. If you have used another RDBMS, you should have no trouble adopting to this one.

## 5. Portability

MySQL can be used on many different platforms. Unix systems as well as Windows.

## 6. Source Code

As with PHP, you can obtain and modify source code for MySQL.

## 7. Availability of Support

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

Q4

list and explain various PHP tag style.  
which is most recommended & why?

Ans The PHP code in preceding example began with:

< ?php  
              . . . syntax.  
?>

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

There are actually 4 different types of PHP tag.

#### 1. XML Style

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

- This is the tag style that we used in this book, it is preferred php tag style.
- This tag style can be used with extensible mark up language (XML) doc.

#### 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 Java script or VB script.

### 4 ASP Style

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

- This tag style is same as used in Active server page.
- You can use an editor that is geared toward ASP.

Q5

What do you mean by Variables?

Write the rules for defining variables.

Ans

Variable is just the name of memory location. A variable is simply a container.

### Rules

- Variable in PHP starts with a \$ sign followed by name of the variable.
- The variable name must begin with a letter or underscore character.
- A variable name can contain only numeric numbers, characters and underscore (-, 1-9, A-Z).
- A variable name cannot contain space.

Q6

List the main data types provided by PHP.

Ans

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

List

- string
- Integer
- Float
- Boolean
- Array
- Object
- NULL
- Resource

Q7

Explain == and === Operator with eg.

(i) ==

It enables you to test whether two values are equal

 $\$a == \$b$ 

(ii) ===

Name: Identical operator

- It returns the boolean value
- If datatype and value are same of both variables, then it returns true otherwise false.

Eg. <? PHP
 $\$x = 100;$ 
 $\$y = 100;$ 
 $\$var = \text{var_dump} (\$x == \$y);$ 
 $\text{echo } \$var;$ 

?&gt;

It returns false because of the value of x is 100 and datatype is integer & y is 100 but datatype is string.

Q8 Explain the use of isset & empty function.

Ans (i) isset ():

It is to determine the variable is declared and is not NULL.

Syntax:

isset [ Mixed var [, mixed \$... ] ]

Pg. <? PHP

\$ val = ' ';

? if (isset (\$val))

{

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));

?>

(ii) empty();

It determines the value of variable is empty or not.

Signature

empty (mixed \$var): bool

Eg. <? PHP

\$var = 0;

{ if (empty (\$var))

echo '\$var is either empty or not set';

}

if (isset (\$var))

{

echo '\$var is set';

}

?>

Q9

What choices you have to make when opening a file.

Ans

Open file using fopen().

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

List and explain various file modes.

## Mode

## Modename

## Meaning.

1.	r	read	Open file for reading from start of file
2.	w	write	Opens file for writing from start of file.
3.	a	append	Open file for appending only starting from end of the existing contents.
4.	x	Cautious write	Create a new file for write only return false and an error if file already exists.
5.	rt	read	opens the file in read / write mode. file pointer starts of the beginning of file.
6.	wt	write	Opens the file in read/ write mode.
7.	at	append	opens the file for read/ write mode if content is present.
8.	xt	Cautious write	Create a new file for read / write. Return false and error if file does not exist.

Q10 List and explain various flock() operation values.

Ans flock()

It is used for the locks and release file

Syntax.

flock(file, lock, block)

Parameter.

It requires specifies an open file to lock or release.

Lock:

It requires what kind of lock use.

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($file, "Add some text in file");
    fflush($file);
```

```
} flock($file, lock_ur);
```

else {

```
    echo "error in locking file";
}
```

```
fclose($file);
?>
```

Assignment - 2

Q1 What do you mean by array?

Explain with eg. various ways to define array in PHP?

Ans Array is datatype in PHP

1. Create array using single statement

arrayname = array( value<sub>1</sub>, value<sub>2</sub>, value<sub>3</sub>... );

2. Create array using multiple statement.

a) array-name = array();

b) array-name [index] = value;

Eg.

\$ name = array();

\$ name[0] = 'volkswagen';

\$ name[1] = 'Maruti';

\$ name[2] = 'Hyundai';

\$ names = array ('volkswagen', 'Maruti', 'Hyundai');

echo <br> \$ name[1];

→ It will display Maruti.

Q2 What do you understand by regular expression? what are two main techniques for regular expression

Ans Regular expression are nothing more than a sequence or pattern of character itself.

- PHP offers functions specific of two sets regular expression function, each corresponding to a certain type of regular expression.

- POSIX Regular exp.
- PERL style regular Exp.

Q3 Explain preg-match with its prototype and.

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

function-name ('/pattern/', subject);  
>

- "functionname ()" is either preg-match, preg-split or preg-replace
- "Subject" is the text string to be matched against.

Eg.

<? PHP

```
$ my-url = " My name is Neel ";
if (preg-Match ('/(Neel)/', $ my-url));
```

Echo " the url contain Neel ";
3

else

{

Echo " the url does not contain Neel ";
3

?>

Q4

List the meaning of POSIX character class

Class

Matches

[[:alnum:]]

Alpha, Numeric character

[[:alpha:]]

Alphabetic character

[[:lower:]]

Lowercase letters

[[:upper:]]

Uppercase letters

[[:digit:]]

Decimal digit

[[:xdigit:]]

Hexadecimal digit

[[:punct:]]

Punctuation

[[:blank:]]

Tab & Spaces

[[:space:]]

Whitespace character

[[:cntrl:]]

Control characters

[[:print:]]

All printable characters

[[:graph:]]

Printable char, excluding space.

Q5 List the meaning of special characters used in POSIX regular expression outside square brackets.

<u>Ans</u>	Character	Meanings
	\n	denotes a new line
	\r	denotes a carriage return
	\t	denotes a tab.
	\u	denotes a virtual tab
	\f	denotes a form feed
	\xxx	denotes octal character xxx
	\xhh	denotes hex character hh

Q6 what is difference between require and include function.

Ans include ()

To include a file using include() fun. you simply call the function and insert the syntax.

include ('filename');

## Require()

Usage of require() function is same as the include function. Simply call the function and pass the path of include file syntax

```
require('filename');
```

Q1 Explain variable scope with appropriate example.

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

### - Static Variables

It is the characteristics of PHP to debt the variable, once it completes its execution and the memory is freed.

### - Global Variables

declared in a script and visible throughout the script but not inside the function.

### - Constant

are declared are always globally of that is that can be used inside or outside the function.

Q8 Explain the following oop concepts in your word.

Ans ① object

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

② Polymorphism

This is a Greek word.

Meanings of poly in Greek is Much / More and Morph means form & shape.

This means polymorphism is an ability to use a single function in many ways upon the usage.

③ Class

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

Object can't create without class.

Q9 What do you mean by overriding?  
How you can make a method which cannot be override?

Ans Function overriding is same as other oops programming language.

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";

}

class C extends P

{

function name ()

{

echo "child";

}

\$ p = new P;

\$ c = new C;

\$ p -> name ();

\$ c -> name ();

Output

Parent child

?>

Q 10

Why you create abstract class and abstract method.

Ans

An abstract class is 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 can only define in abstract class.
- An abstract class can have abstract and non-abstract method.

Q1

Explain in brief with example of MySQL

Ans

### (1) Tables

Relational database are made up of relations  
More commonly called tables

Table is exactly what is sound to a table  
of data.

(2)

### Columns

Each column in the table has unique  
name and contains different data.  
Additionally each column has abstracted  
data types.

(3)

### Rows

Each row in the table represent a  
different customer because of tabular  
format. Each row has the same  
attributes.

- Row is also called record or tuples

(4)

### Values

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

### (3) Key

- A key can also multiple columns.
- The relational database items for this relationship is foreign key.

### (6) Scheme

Foreign key represents a relationship between data into two tables.

Q2 what do you mean by anomalies? List various anomalies in a relation. What you have to do reduce anomalies?

Ans - Different types of anomalies

#### (i) Insertion anomaly

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

#### (ii) Deletion and Updation Anomaly

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

To avoid anomalies, we do following.

(i) ON DELETE / UPDATE SET NULL.

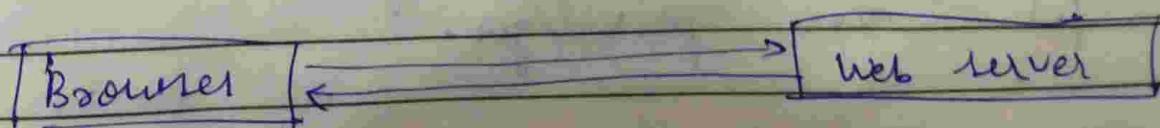
If a table is updated from referenced attribute value is used by referencing attribute in referencing relation, it will delete / update its tuple from referred relation and set the value of referencing attribute to ~~with~~ NULL.

(ii) ON DELETE / UPDATE CASCADE

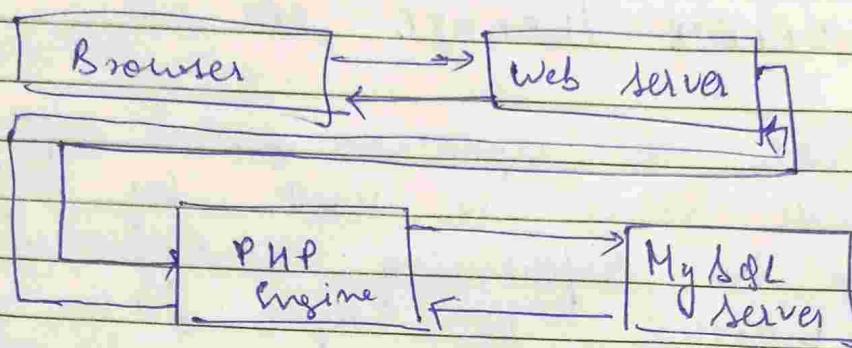
If a tuple is deleted or updated relation and referenced attribute value is used by referencing attribute in referencing relation, it will delete / update the tuple from referenced relation and referencing relation as well.

Q3 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 (1) web browser and (2) web server.



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



The typical web database applications consists of following stages

- (i) Using browser, user sends request to web browser using HTTP.
- (ii) Web server, apache receives the request and retrieve the file fetch PHP Web server passes the file to PHP engine from processing.
- (iii) MySQL server receives the query . proc it and send the result back to PHP engine.
- (iv) The PHP engine get the query result
- (v) The web server send - HTML block to the browser.

Q4

Write the command(s) to give privilege on database movie to user spiderman

Ans In MySQL has issue grant command for give privileges.

- MySQL > GRANT ALL PRIVILEGES on database name to 'username @localhost';
- MySQL > GRANT ALL PRIVILEGES on Movie TO 'SPIDERMAN @ localhost';

Q5 List and explain main datatypes in MySQL

Ans 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.

### (1) MySQL numeric types

MySQL supports all standard SQL numerical datatype which include INTEGER, SMALLINT, DECIMAL and NUMERIC

### (2) Date and Time Types

The MySQL date and time datatype as follows:

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

### (3) String type.

Although the numeric and date types are fun, most data you'll store will be

in string format there were many  
electotypes like,  
→ CHAR(M), VARCHAR(M), BLOB or TEXT, ENUM

Q6 What is use of explain statement?

Ans 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 optimiser about the statement, including information about how tables are joined in order.

Q7 What are the different types of backup?

Ans (1) Full backup

Includes all changes to the data since include complete data from the database

(2) A differential backup

Includes all changes to the data since the last backup. It offers a similar advantage over a full backup. It is faster than full backup.

(3)

### An incremental backup

Includes all changes to the data since the last backup. It offers similar advantages over a full backup as a differential backup does.

Q8

Compare various storage engines available in MySQL

Ans

MySQL provides various storage engines for its table is as follows.

- MyISAM
- CSV
- MERGE
- FEDERATED
- MEMORY
- ARCHIVE

(i)

#### MyISAM

MyISAM extends the former ISAM storage engine.

(ii)

#### InnoDB

The InnoDB tables fully support ACID compliant and transaction.

(iii)

#### MERGE

A MERGE engine/table is virtual that combine multiple MyISAM tables that have a similar structure to one table.

(iv)

MEMORY

The Memory tables are stored in memory and use hash indexes so they are faster than MyISAM tables.

(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.

(vi)

CSV

The CSV storage engine stores data in comma separated values file format

Q9

What do you mean by transaction? Explain ACID property of transaction.

Ans

**TRANSACTION:** It is mechanism for ensuring database consistency especially in event of error or server crash.

→

Properties of transaction

(i)

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 database that is until the transaction are complete they should remain isolated.

## 4) Durability

Once written in the database a transaction should be permanent or durable.

Q10 When you would prefer load Data in file.

Ans - Once useful feature of MySQL that we have not discussed in the LOAD DATA INFILE statement you can use it to load data in form of file execute very quickly.

Syntax.

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

- The line reads raw data from the file new file new books by default data field in the file.
- All the characteristic are configurable with the various options of LOAD statement.

Assignment -4Q1

list and explain file upload configuration settings with their default value in PHP.

Ans.

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();  
?>
```

→ Important settings or common parameter of the PHP file

(i) enable safe mode on:

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

(ii) Register - globas = ON

It's default setting to ON which tells that the content of EGPS

(iii) UPLOAD - max filesize

This setting is for the maximum allowed size for upload files in the script.

(iv) Upload - tmp - dir = [Dir]  
Don't uncomment this settings

5) Display - error = off

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

7) auto - prepered - file = [file path]

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

8) doc - root

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

9) MySQL . default - host = hostname

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

10) MySQL default - password = Password

This setting is done to connect MySQL default Password if no other password is required.

Q2 What do you mean by RFCs? Who define it? What is the use of RFCs?

Ans RFC is request for comments.

RFC is ~~so~~ in information and communication technology is a type of text document from the technology community.

The RFC system is supported by the Internet Society (ISOC).

- Request for comments are produced in a non-reflowable document format, but work began to change the format to a reflowable one, so that documents can be viewed on devices with restricted size.

Q3 Differentiate the functions of following protocols.

Ans (i) SMTP

Simple Mail Transfer Protocol is a standard protocol for sending across the Internet.

→ By default works on three ports.  
PORT 25, PORT 2525, PORT 465

- IMAP

The Internet Message Access Protocol is a Mail Protocol is used for accessing e-mail on a remote web server from a local client.

- IMAP and POPs are two most commonly used internet mail protocols for receiving E-mails.

- By default IMAP works on two parts.
- PORT 143, PORT 993.

### POP3

- Post office protocol version 3 is a standard mail protocol to receive mails from a remote server to a local email client.
- POP 3 your 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 parts, PORT 110, PORT 995

Q5 Write the full form of JPEG, PNG, WBMP, GIF

Ans

JPEG : Joint Photographic Group.

PNG : Portable Network Graphics

GIF : Graphic Interchange format

WBMP : Wireless Bitmap

JPG : Joint Photographic expert group

Q6

What do you mean by session?

Ans

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 applications.

- HTTP is a stateless protocol. So once a browser sends request to the server and server responds to the browser, the connection between browser and server.
- Cookie is used to store session ID. It is stored by default. Then the cookie is passed by the browser to server of each request.

Q7 What is cookie?

- If any web application, it is essential to keep track of user as he / she moves in a web pages of web application. To keep track of users. Movement within a web application session and cookie are used.
- Cookie can gather data like username, password, address or credit card number. By using stored data, user can skip login and registration screens.

Q8 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.

Syntax

session - set - cookie - params ( \$ lifetime, \$ path, \$ domain, \$ secure, \$ httpOnly )

where,

- \$lifetime is the timespan of session cookie in second in which cookie is live.
- \$lifetime is the only compulsory parameter. All other parameters are optional just set.

Session - cookie - putans function.

Eg.

<? PHP

// start session with custom cookie  
putans

\$lifetime = 60 \* 60 \* 24 \* 7; // 1 week  
session\_start();

echo "<br> session is started <br>";

ans = cookie ['PHPSESSID'];

echo "<br> value of session cookie is : " . ans  
?>

Q9

Write only steps to use session.

Q10

Ans

(1) You must first start up the session.

Ans(1)

- 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:

Eg. <? PHP

```
// starting session
session_start();
$_SESSION["firstname"] = "pete";
$_SESSION["lastname"] = "Parker";
```

// Removing session data.

```
if (isset($_SESSION["lastname"]))
{
    unset($_SESSION["lastname"]);
}
?>
```

Q10 Explain the use of following functions.

Aw(1)

`eval`

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

Syntax:

`eval ($string)`

Eg. :

<? PHP

```
$_age = 20;
$_sth = 'my age is $_age';
```

```
echo $str in;
eval(" $str = 1 \"$str1\"; ");
echo $str = "1n";
```

?>

### Output

My age is \$age  
My age is 20.

### (ii) 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

```
$site = " ";
fopen($site, "n");
```

? die ("Unable to connect to given site");

### Output

Unable to given site

### (iii) Exit()

The Exit() function in PHP is an inbuilt function which is used to output a message and terminate the current script.

class

- The exit () function only terminates the execution of script.
- The shutdown functions and object destructors will always be executed even if exit () function is called.

→ ↪ PHP

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

?>

O/P

- Unable ~~to~~ establish a connection to https://www.google.com.

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**ASSIGNMENT: 1**

**ASSIGNMENT: 1**

**ASSIGNMENT: 1**

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```
<!--  
=====-->  
<!-- Q. 1 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">  
<meta name="viewport" content="width=device-width, initial-scale=1.0,shrink-to-fit=no">  
<center>  
    <form method="POST" name="form1">  
        <table border="1" style="border: solid 3px  
#808080;">  
            <tr>  
                <td>Enter Amount </td>  
                <td><input type="number"  
name="p"></td>  
            </tr>  
  
            <tr>  
                <td>Enter Rate of Interest </td>  
                <td><input type="number"  
name="r"></td>  
            </tr>
```

```
<tr>
    <td>Enter Number of years </td>
    <td><input type="number"
name="n"></td>
</tr>

<tr>
    <td> <button class="rst"> Reset
</button> </td>
    <td> <button class="sbt"
name="sbt"> Submit </button> </td>
</tr>
</table>
</form>
</center>
<?php
if(isset($_POST['sbt'])){
    echo "<center>";
    $ans = ($_POST['p'] * $_POST['r'] * $_POST['n'])
/ 100;
    echo "$ans";
    echo "</center>";
}

```

```
?>
```

```
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```

```
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=====-->  
===== -->  
<!-- Q. 10 -->
```

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

```
$milk = array (  
    array (  
        "name" => "Shakti",  
        "price" => 25
```

```
        ),
        array (
            "name" => "Amul",
            "price" => 30
        ),
        array (
            "name" => "Branded",
            "price" => 28
        )
    );
}

$uasort = $usort = $milk;

echo "<div style = 'display: flex;'>";

// =====Displaying normal 2D
array=====
echo "<div>";

echo "Normal Array<br><br>";
array_walk_recursive($milk, function ($item, $key) {
    echo "$key : $item<br>";
});
```

```
echo "</div>";  
  
// ===== Sorting according to  
price=====  
  
usort($usort, function($a, $b) {  
    return $a['price'] <=> $b['price']; // for descending,  
    return $b['price'] <=> $a['price'];  
});  
  
echo "<div>";  
  
//use uasort to preserve keys, use "print_r($uasort);"  
to check  
uasort($uasort, function($a, $b) {  
    return $a['price'] <=> $b['price'];  
});  
  
echo "Sort by price<br><br>";  
array_walk_recursive($usort, function ($item, $key) {  
    static $i = 1;  
    echo "   $key : $item | ";  
    if(!($i++ % 2)) { //because there are only 2  
elements
```

```
    echo "<br>";
}
});

echo "</div>";
```

```
// =====Sorting according to milk
brand=====
```

```
echo "Sort by name<br><br>";
$milk2 = $milk;

usort($milk2, function($a, $b) {
    return $a['name'] <=> $b['name'];
});
```

```
array_walk_recursive($milk2, function($item, $key) {
    static $i = 1;
    echo " $key : $item | ";
    if(!($i++ % 2)) { echo "<br>"; }
});
```

```
echo "</div>";
```

```
?>
```

```
<!--  
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```

```
<!--  
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===== -->  
<!-- Q. 11 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">  
<form name="form1" method="post">  
<center>  
<table border = 1>  
<tr>  
<td>First city</td>
```

```
<td>Second city</td>
</tr>

<tr>
  <td>
    <select name = "cityA">
      <option value = 0>Kachchh</option>
      <option value = 1>Rajkot</option>
      <option value = 2>Ahmedabad</option>
      <option value = 3>Surat</option>
      <option value = 4>Mumbai</option>
    </select>
  </td>

  <td>
    <select name = "cityB">
      <option value = 0>Kachchh</option>
      <option value = 1>Rajkot</option>
      <option value = 2>Ahmedabada</option>
      <option value = 3>Surat</option>
      <option value = 4>Mumbai</option>
    </select>
  </td>
</tr>
```

```
<tr class="text-center">
    <td colspan = 2>
        <input type = "submit" value = "Calculate
Distance" class=" sbt" style="padding: 10px;" name="sbt">
    </td>
</tr>
</table>
</center>
</form>
<?php

if(isset($_POST['sbt'])) {
    $cityA = $_POST['cityA'];
    $cityB = $_POST['cityB'];
    echo "$cityA $cityB";
    $city = array (
        "Kachchh",
        "Rajkot",
        "Ahmedabad",
        "Surat",
        "Mumbai",
    );
}
```

```
$distance = array (
    array (000, 280, 395, 655, 999),
    array (280, 000, 115, 415, 800),
    array (395, 115, 000, 302, 650),
    array (655, 415, 302, 000, 200),
    array (999, 800, 650, 200, 000)
);

$result = $distance[$cityA][$cityB];
print "<h3>The distance between ";
print "$city[$cityA] and $city[$cityB]";
print " is $result miles.</h3>";
}

?>

<!--
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<!--
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```

```
=====
===== -->
<!-- Q. 12 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">
<?php
$type = array('Clb', 'Hrt', 'Diam', 'Spd');
$rank = array('1', '2','3', '4', '5', '6', '7', '8', '9', 'J', 'Q',
'K', 'A');

echo "<div style = 'display: inline-flex;'>";
echo "Ascending: <br>";
$i = "";
foreach ($type as $k1) {
    echo "<div>";
    foreach ($rank as $k2) {
        if($k1 == 'Clb' || $k1 == 'Spd') {
            echo "<b>" . $i . "</b>" . $k1 . "&nbsp;" .
. $k2 . "<br>";
        } else {
            echo "<font color='red'>";
            echo "<b>" . $i . "</b>" . $k1 . "&nbsp;" .
. $k2 . "<br>";
```

```
        echo "</font>";  
    }  
}  
echo "</div>";  
}  
  
echo "<span style = 'margin-left: 45px;'></span>";  
  
echo "Descending: <br>";  
foreach (array_reverse($type) as $k1) {  
    echo "<div>";  
    foreach (array_reverse($rank) as $k2) {  
        if($k1 == 'Clubs' || $k1 == 'Spades') {  
            echo $k1 . " " . $k2 . "<br>";  
        } else {  
            echo "<font color='red'>";  
            echo $k1 . " " . $k2 . "<br>";  
            echo "</font>";  
        }  
    }  
    echo "</div>";  
}  
echo "<span style = 'margin-left: 45px;'></span>";
```

```
echo "Shuffled: <br>";

$numbers = range(1, 52);
$shuffle = shuffle($numbers);

$i = 0;
echo '<table border="1" style="border: solid 3px #808080;">';
echo "<tr>";
foreach ($numbers as $key) {
    $rem = $key % 4;
    $div = $key % 13;
    echo "<td>";
    if($rem == 0 || $rem == 3) {
        echo $rank[$div] . " of " . $type[$rem] . " ";
    } else {
        echo "<font color= 'red'>";
        echo $rank[$div] . " of " . $type[$rem] . " ";
        echo "</font>";
    }
    echo "</td>";
    $i++;
    if($i % 4 == 0) {
```

```
    echo "</tr>";
    echo "<tr>";
}

echo "</div>";
?>

<!--
=====
===== -->

<!--
=====
===== -->
<!-- Q. 13 -->

<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css.css">
<?php
```

```
$i = 0;

if(file_exists("files/studinfo.txt")) {
    $f1Handle = @fopen("files/studinfo.txt", "rb");

    $fn = fopen("files/studinfo.txt","r");
    while(!feof($fn)) {
        $array[$i++] = fgets($fn);
    }
    fclose($fn);
    echo "<br>
        // By this way, last inserted will be first
        displayed<br>
        // use for loop for reversed
    ";
    echo '<table border="1" style="border: solid 3px
#808080;">';
    while($i--) {
        echo "<tr>";
        echo "<td>";
        echo $array[$i];
        echo "</td>";
        echo "</tr>";
    }
}
```

```
echo "</table>";

fclose($f1Handle);

} else {
    echo "No such File Exists";
}

?>

<!--
=====
===== -->

<!--
=====
===== -->

<!-- Q. 15 (Part2)-->

<meta name="viewport" content="width=device-width, initail-scale=1.0, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css.css">

<br>
```

```
<?php
```

```
$arr1 = $arr2 = $arr3 =  
array("Pic1","pic2","pic10","pic01","pic100","pic20","pic  
30","pic200");
```

```
usort($arr1, "strcmp");  
usort($arr2, "strnatcmp");  
usort($arr3, "strnatcasecmp");
```

```
echo "<div style='display: inline-flex;'>";
```

```
echo "<pre>strcmp<br><br>"; var_dump($arr1);  
echo "</pre>";  
echo "<pre>strnatcmp<br><br>"; var_dump($arr2);  
echo "</pre>";  
echo "<pre>strnatcasecmp<br><br>";  
var_dump($arr3); echo "</pre>";
```

```
echo "</div>";
```

```
?>
```

```
<!--
```

```
=====
```

```
===== -->
```

```
<!--  
===== -->  
===== -->
```

```
<!-- Q. 15 (Part1)-->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">  
<link rel="stylesheet" type="text/css" href="css.css">  
<?php
```

```
$str = "*** Lorem Ipsum ***";  
echo "<center>";  
echo "<h2>$str</h2>";  
echo '<table border="1" style="border: solid 5px  
#f1e9e9; border-radius: 1rem;">';
```

```
echo "<tr><td>";  
echo "trim ";  
echo "</td><td>";  
echo trim($str,"***");
```

```
echo "</td></tr>";

echo "<tr><td>";
echo "rtrim ";
echo "</td><td>";
echo rtrim($str,"***");
echo "</td></tr>";

echo "<tr><td>";
echo "ltrim ";
echo "</td><td>";
echo ltrim($str,"***");
echo "</td></tr>";

echo "<tr><td>";
echo "STR_PAD_LEFT ";
echo "</td><td>";
echo str_pad($str, 25, "_", STR_PAD_LEFT);
echo "</td></tr>";

echo "<tr><td>";
echo "STR_PAD_BOTH ";
echo "</td><td>";
echo str_pad($str, 25, "_", STR_PAD_BOTH);
```

```
echo "</td></tr>";  
  
echo "<tr><td>";  
echo "STR_PAD";  
echo "</td><td>";  
echo str_pad($str, 25, "_");  
echo "</td></tr>";  
  
echo "<tr><td>";  
echo "lcfirst(Lower case)";  
echo "</td><td>";  
echo lcfirst("Hello world!");  
echo "</td></tr>";  
  
echo "<tr><td>";  
echo "ucfirst(Upper case)";  
echo "</td><td>";  
echo ucfirst("hello world!");  
echo "</td></tr>";  
  
echo "<tr><td>";  
echo "ucwords";  
echo "</td><td>";  
echo ucwords("hello world");
```

```
echo "</td></tr>";
```

```
echo "<tr><td>";  
echo "Strtolower";  
echo "</td><td>";  
echo Strtolower($str);  
echo "</td></tr>";
```

```
echo "<tr><td>";  
echo "strtoupper";  
echo "</td><td>";  
echo strtoupper($str);  
echo "</td></tr>";
```

```
echo "<tr><td>";  
echo "strrev";  
echo "</td><td>";  
echo strrev($str);  
echo "</td></tr>";
```

```
echo "<tr><td>";
```

```
echo "str_shuffle (yymmv)";
echo "</td><td>";
echo str_shuffle($str);
echo "</td></tr>";

echo "<tr><td>";
echo "str_repeat";
echo "</td><td>";
echo str_repeat("ADJP ", 5);
echo "</td></tr>";

$str2 = "Lorem Ipsum Dolor Set Amet";
echo "<tr><td>";
echo "explode";
echo "</td><td>";
print_r(explode(' ', $str2, -1));
echo "</td></tr>";

$arr = array('Lorem','Ipsum!','Set','Amet!');
echo "<tr><td>";
echo "implode";
echo "</td><td>";
echo implode("<b>+</b>", $arr);
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strcmp";
echo "</td><td>";
echo strcmp("Ajinkya","ajinkya");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strcasecmp";
echo "</td><td>";
echo strcasecmp("Ajinkya","ajinkya");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strlen";
echo "</td><td>";
echo strlen("Ajinkya");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strstr";
echo "</td><td>";
echo strstr("rajinkya26@gmail.com", "@");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "stristr";
echo "</td><td>";
echo stristr("rajinka26@gmail.com", "@G");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strrstr(true)";
echo "</td><td>";
echo strchr("Hello world world!","world",true);
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strchr";
echo "</td><td>";
echo strchr("Hello world world!","world");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strrchr";
echo "</td><td>";
echo strrchr("Hello world world!","world");
echo "</td></tr>";
```

```
echo "<tr><td>";
echo "strpos";
echo "</td><td>";
echo strpos("Ajinkya php, php","php");
echo "</td></tr>";

echo "<tr><td>";
echo "strrpos";
echo "</td><td>";
echo strrpos("Ajinkya php, php","php") . "<br>";
echo "</td></tr>";

echo "<tr><td>";
echo "substr_replace";
echo "</td><td>";
echo substr_replace("Bobby", 'bob', 0) . "<br>";
echo "</td></tr>";

$letters = array('a', 'p');
$fruit  = array('apple', 'pear');
```

```
$text    = 'a p';
$output = str_replace($letters, $fruit, $text);

echo "<tr><td>";
echo "str_replace";
echo "</td><td>";
echo $output . "<br>";
echo "</td></tr>";

echo "</table>";
echo "</center>";

// echo "<b> </b>" . "<br>";
// echo "<b> </b>" . "<br>";
?>

<!--
=====
===== -->

<!--
=====
```

```
=====
===== -->
<!-- Q. 16 -->
```

```
<?php
// echo preg_match('/[a-z]', "1");

echo preg_match ("/^a-z0-9]{1, }$/",'9a') . "<br>";

echo preg_match ("/^a-z/",'abc') . "<br>";

?>
```

```
<!--
=====
===== -->
<!--
=====
===== -->
<!-- Q. 2 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
<center>
    <form name="form1" action="<?php $_PHP_SELF ?>">
        <table border="1" style="border: solid 3px #808080;">
            <tr>
                <td>First Name </td>
                <td><input type="text" name="fname" autocomplete="off"></td>
            </tr>

            <tr>
                <td>Last Name </td>
                <td><input type="text" name="lname" autocomplete="off"></td>
            </tr>

            <tr>
                <td colspan=2 style="text-align: center;"> <button class="sbt" name="sbt"> Submit </button> </td>
            </tr>
```

```
</table>
</form>
</center>

<?php
// https://stackoverflow.com/questions/1372147/check-whether-a-request-is-get-or-post
echo "<br>Checking if get or post";
if($_SERVER['REQUEST_METHOD'] === 'POST') {
    echo "<br>Method is Post";
    if($_POST['fname']) {
        echo "<br> Your First name is" .
        $_POST['fname'];
    }
    if($_POST['lname']) {
        echo "<br> Your Last name is" .
        $_POST['lname'];
    }
}

else if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    echo "<br>Method is Get";
    if($_GET['fname']) {
```

```
        echo "<br> Your First name is: " .  
$_GET['fname'];  
    }  
  
    if($_GET['lname']) {  
        echo "<br> Your Last name is: " .  
$_GET['lname'];  
    }  
}
```

```
// Request  
if($_REQUEST['fname']) {  
    echo "<br> Your First name is: " .  
$_REQUEST['fname'];  
}  
  
if($_REQUEST['lname']) {  
    echo "<br> Your First name is: " .  
$_REQUEST['lname'];  
}
```

?>

<!--

=====

```
===== -->
```

```
<!--  
===== -->  
<!-- Q. 3 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">  
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">  
<center>  
    <form name="form1" method="GET"  
    action=<?php $_PHP_SELF ?>>  
        <table border="1" style="border: solid 3px  
#808080;">  
            <tr>  
                <td>Start </td>  
                <td><input type="text"  
name="minRad" autocomplete="off"></td>  
            </tr>
```

```
<tr>
    <td>End </td>
    <td><input type="text"
name="maxRad" autocomplete="off"></td>
</tr>

<tr>
    <td colspan=2 style="text-align:
center;"> <button class="sbt" name="sbt"> Submit
</button> </td>
</tr>
</table>
</form>
</center>

<?php
// $_GET['minRad'] = 1;
// $_GET['maxRad'] = 1;

if (isset($_GET['sbt'])) {
    $start = $_GET['minRad'];
    $end = $_GET['maxRad'];
    if($start < 1) {
```

```
        echo "<br>Minimum Value must be 1 or  
greater";  
        die();  
    }  
    else if($start > $end){  
        echo "<br>Max value cannot be greater than  
min value";  
        die();  
    }  
  
    for ($i = $start; $i <= $end ; $i++) {  
        echo "<br> The radius of " . $i. " is " . (3.14 *  
$i * $i);  
    }  
}  
  
?>  
  
<!--  
=====-->
```

```
<!--  
=====-->  
<!-- Q. 4 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">  
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">  
<center>  
    <form method="POST" name="form1">  
        <table border="1" style="border: solid 3px  
#808080;">  
            <tr>  
                <td>Student ID </td>  
                <td><input type="number"  
name="sid" required></td>  
            </tr>  
  
            <tr>  
                <td>Name </td>  
                <td><input type="text"  
name="sname" required></td>
```

```
</tr>

<tr>
    <td> Subject 1 </td>
    <td
onmouseup="updateResult();"><input type="number"
name="m1" min="0" max="100" value="0"
onkeyup="updateResult();" required></td>
</tr>

<tr>
    <td> Subject 2 </td>
    <td
onmouseup="updateResult();"><input type="number"
name="m2" min="0" max="100" value="0"
onkeyup="updateResult();" required></td>
</tr>

<tr>
    <td> Subject 3 </td>
    <td
onmouseup="updateResult();"><input type="number"
name="m3" min="0" max="100" value="0"
onkeyup="updateResult();" required></td>
</tr>
```

```
<tr>
    <td> <button class="rst"> Reset
</button> </td>
    <td> <button class="sbt"
name="sbt"> Submit </button></td>
</tr>
<tr>
    <td> <p>Total</p> </td>
    <td> <p id="total">0</p> </td>
</tr>

<tr>
    <td> <p>Percentage</p> </td>
    <td> <p id="per">0</p> </td>
</tr>
</table>
</form>
</center>
<script type="text/javascript">
    function updateResult() {
        var m1 =
parseFloat(document.form1.m1.value);
        var m2 =
parseFloat(document.form1.m2.value);
```

```
    var m3 =
parseFloat(document.form1.m3.value);

    var total = m1 + m2 + m3;
    if(isNaN(total)) {

        document.getElementById('total').innerHTML =
"Enter marks of all Subjects";

        document.getElementById('per').innerHTML =
"Enter marks of all Subjects";

    }
    else {

        document.getElementById('total').innerHTML =
total;

        document.getElementById('per').innerHTML = total
/ 3;

    }
}

</script>
<?php
if(isset($_POST['sbt'])){
    if($_POST['sid'] == "" || is_nan($_POST['sid'])) {
        echo "Form not submitted. ID not valid";
    }
}
```

```
else if ($_POST['sname'] == "") {  
    echo "Form not submitted. Name not valid";  
}  
  
else {  
    $m1 = $_POST['m1'];  
    $m2 = $_POST['m2'];  
    $m3 = $_POST['m3'];  
    if($m1 < 0 || $m1 > 100) {  
        echo "<br>Form not submitted. Marks of  
subject 1 is invalid";  
    } else if($m2 < 0 || $m2 > 100) {  
        echo "<br>Form not submitted. Marks of  
subject 2 is invalid";  
    } else if($m3 < 0 || $m3 > 100) {  
        echo "<br>Form not submitted. Marks of  
subject 3 is invalid";  
    } else {  
        echo "<br>Form Submitted  
Successfully.";  
        $tot = $m1 + $m2 + $m3;  
        $per = $tot / 3;  
        echo "<br>Tot: " .  
number_format((float)$tot, 2, '.', ',');  
        echo "<br>Per: " .  
number_format((float)$per, 2, '_', ',');
```

```
// Parameters:  
  
    // number  
    // The number being formatted.  
  
    // decimals  
    // Sets the number of decimal points.  
  
    // dec_point  
    // Sets the separator for the decimal  
point.  
  
    // thousands_sep  
    // Sets the thousands separator.  
  
switch(1) {  
    case ($per > 70): echo "<br>Grade  
A"; break;  
    case ($per > 65): echo "<br>Grade  
B"; break;  
    case ($per > 60): echo "<br>Grade  
C"; break;  
    case ($per > 55): echo "<br>Grade  
D"; break;  
    case ($per > 50): echo "<br>Grade  
E"; break;
```

```
        default: echo "<br>Grade F"; break;
    }
}
}
}
?>
```

```
<!--
=====
=====
-->

<!--
=====
=====
-->
<!-- Q. 5 -->
```

```
<!--  
https://www.worldbestlearningcenter.com/index_files/  
php-file-input-output.htm -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">  
<meta name="viewport" content="width=device-  
width, initial-scale=1.0, shrink-to-fit=no">  
<center>  
    <form method="POST" name="form1">  
        <table border="1" style="border: solid 3px  
#808080;">  
            <tr>  
                <td>Name </td>  
                <td><input type="text"  
name="sname" required autocomplete="off"></td>  
            </tr>  
            <tr>  
                <td colspan="2" class="text-  
center"> <button class="sbt" name="sbt"> Submit  
</button></td>  
            </tr>  
        </table>  
    </form>  
</center>  
<?php  
if(isset($_POST['sbt'])) {
```

```
if ($_POST['sname'] == "") { echo "Form not submitted. Name not valid"; }

else {

    $f1 = @fopen('files/studinfo.txt', 'a+b');

    $sname = "\r\n" . $_POST['sname'];

    $fwrite = fwrite($f1, $sname);

    // fwrite() returns the number of bytes written, or FALSE on error.

    if($fwrite === false) {

        echo "Form not submitted.";

    } else {

        echo "Form Submitted Successfully. " .
        $fwrite . " bytes written.";

    }

    fclose($f1);

}

?>

<!--
=====
===== -->
```

```
<!--
=====
=====
===== -->
<!-- Q. 6 -->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css.css">
<?php
if(file_exists("files/studinfo.txt")) {
    $f1Handle = @fopen("files/studinfo.txt", "rb");
    echo fread($f1Handle, filesize('files/studinfo.txt'));

    // Line By Line Starts
    $fn = fopen("files/studinfo.txt","r");
    while(!feof($fn)) {
        $result = fgets($fn);
        echo "<br>" . $result;
    }
    fclose($fn);
```

```
// Line By Line Ends

fclose($f1Handle);

} else {
    echo "No such File Exists";
}

?>
```

```
<!--
=====
=====
===== -->

<!--
=====
=====
===== -->
<!-- Q. 7 -->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css.css">
<pre style="color: red">
```

JUST TO QUOTE AND POINT THIS OUT:

!!!!!!!!!!!!!!

3. if you're using fseek() to write data to a file,  
remember to open the file in "r+"

mode, example:

```
$fp=fopen($filename,"r+");
```

DON'T open the file in mode "a" (for append),  
because it puts

the file pointer at the end of the file and doesn't let  
you

fseek earlier positions in the file (it didn't work for me!).  
Also,

don't open the file in mode "w" -- although this  
puts you at

the beginning of the file -- because it wipes out all  
data in  
the file.

!!!!!!!!!!!!!!

Took me half a day to figure :/

```
</pre>
```

```
<?php
```

```
$file = 'files/7.txt';
```

```
$fReadHandle = fopen("files/7.txt", 'r+');
```

```
$ currentPosition = fgets($fReadHandle, 4); //  
Reading from Start
```

```
echo "<br> Reading from Start <br>" .  
$currentPosition;
```

```
$ currentPosition = fgets($fReadHandle, 5); //  
Reading from the last read
```

```
echo "<br> Reading from the last read <br>" .  
$currentPosition;
```

```
fseek($fReadHandle, 0); //fseek
```

```
$ currentPosition = fgets($fReadHandle, 4);  
echo "<br> Again Reading from Start <br>" .  
$currentPosition; //Again Reading from
```

```
$ftell = ftell($fReadHandle); //fseek  
echo '<br> $ftell' . " $ftell ";  
  
// Use single quotes around variables to prevent  
shell expansion  
echo "<br>Use single quotes around variables to  
prevent shell expansion";  
echo '<br>' . '\''ftell\'' . ' writes the word -> $ftell';  
echo "<br>" . "\""ftell\""' . ' writes value i.e -> ' .  
"$ftell";  
  
?>
```

```
<!--  
=====-->  
=====-->
```

```
<!--  
=====-->  
=====-->  
=====-->
```

```
<!-- Q. 8 -->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css.css">

<h1>Hobbies</h1>

<form name="form1" method="POST">
    <input type="checkbox" id="h1" name="hobby[]" value="Dance"> Dance <br>
    <input type="checkbox" id="h2" name="hobby[]" value="Sing"> Singing <br>
    <input type="checkbox" id="h3" name="hobby[]" value="Study"> Study <br><br>
    <input type="submit" class="sbt" value="Submit" name="sbt">
</form>

<?php
if(isset($_POST['sbt'])){
```

```
if(!empty($_POST['hobby'])){
    foreach($_POST['hobby'] as $selected){
        echo $selected."</br>";
    }
}
?>
```

```
<!--
=====
=====
-->
```

```
<!--
=====
=====
-->
<!-- Q. 9 -->
```

```
<link rel="stylesheet" type="text/css" href="css.css">
<meta name="viewport" content="width=device-width, initial-scale=1.0,shrink-to-fit=no">
<?php

$arr = array("1. Chole Bhature","2. Chana Masala","3.
Dal Makhani","4. Aloo Paratha","5. Kadai Paneer");

$i = 2;

foreach ($arr as $value) {
    if($i % 2) {
        echo "<br>" . $value;
    }
    $i++;
}

?>

<!--
=====
===== -->
```

```
/*=====
=====*/
=====*/
```

## CSS FILE

```
/*=====
=====*/
=====*/
```

```
/*css*/
* {
    font-family: 'Verdana';
    box-sizing: border-box;
}
input[type = text], input[type = number], button,
select {
    font-size: 18pt;
}
tr{
    border-right: none;
    border-left: none;
```

```
border-bottom: none;  
border-top: none;  
}  
  
td {  
    border-left: none;  
    border-top: none;  
    padding: 10px;  
}  
  
td:hover{  
    background-color: #ddd;  
    cursor: pointer;  
}  
  
.rst {  
    background-color: red;  
    color: white;  
}  
  
.sbt {  
    background-color: green;  
    color: white;  
    font-size: 15pt;  
}  
  
.text-center {  
    text-align: center;  
}
```

```
/*=====
=====*/
=====*/
```

```
/*=====
=====*/
=====*/
```

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

**ASSIGNMENT: 2**

**ASSIGNMENT: 2**

## ASSIGNMENT: 2

## PRACTICAL ASSIGNMENT - 2 :

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();
}

?>
```

OUTPUT :

### Product Details

Product code : 101

Product Name : Bag

Product Price : 670

Product Discount : (In %) 15

Product Discount amount is 100.5.

Net pay amount for Product 569.5.

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

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';  
?>
```

OUTPUT :

This is Practical 2 but Same look as below  
practical - 1

Product Details

Product code : 101

Product Name : Bag

Product Price : 670

Product Discount : (In %) 15

Product Discount amount is 100.5.

Net pay amount for Product 569.5.

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

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>";
```

```
    }  
?>
```

## OUTPUT :

```
Ticket Booking  
Enter number of tickets : 3
```

```
1 - Ticket  
2 - Ticket  
3 - Ticket
```

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

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 $i :
</label><input type='text' name='number[]'><br/>";
    }
    if (isset($_POST['submit'])) {
        $number = $_POST['number'];
        $total = 0;
        foreach($number as $n)
            $total = $total + $n;
        echo "Total : $total."<br>;
        echo "Average :
".$total/count($number);
    }
}
```

?>

OUTPUT :

Practical - 4

Enter Number 1 : 4

Enter Number 2 : 8

Enter Number 3 : 4

Enter Number 4 : 2

Enter Number 5 : 2

Total : 20

Average : 4

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

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);
```

```
 }  
?>
```

OUTPUT :

Enter Number : 6

Answer : 720

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

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']);

    }

?>

```

OUTPUT :

```

Fuel cost calculator
Enter price of fuel : 72

```

Cost of fuel per KM is : 1.44

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

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 maintanance 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']);
        }
    ?>
```

OUTPUT :

Maintainance cost calculator

Enter Maintenance cost : 100

Cost of Maintenance is : 1200

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

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);

}

    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./";

        }

    }

?>

```

OUTPUT :

Find Best Economical Car

Enter Car 1 maintanance : 30

Enter Car 2 maintanance : 50

Enter Car 3 maintanance : 70

PKC101 is best car.

\*\*\*\*\*

\*\*\*\*\*

9. 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();  
}  
}  
?>
```

OUTPUT :

```
Find Best Economical Car  
Enter Car 1 maintanance : 30  
Enter Car 2 maintanance : 50  
Enter Car 3 maintanance : 70
```

PKC101 is best car.

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

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!!!!";  
    }  
}  
?  
  
*****  
*****
```

```
/*=====
```

```
=====*/
```

```
*****
```

```
*****
```

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

**ASSIGNMENT: 4**

**ASSIGNMENT: 4**

**ASSIGNMENT: 4**

```
*****
```

```
*****
```

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\*\*\*\*\*

1. Write a php script to upload a file.

INPUT :

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_na
me"], $target_file)) {
        echo "Upload success";
    } else {
        echo "Sorry, there was an
error uploading your file.";
```

```
}
```

```
?>
```

OUTPUT :

File Upload

Select image to upload: Capture2.PNG

Upload success

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

2. Write a php script which reads and display each directory as a bulleted list.

INPUT :

```
<?php  
    $cwd = getcwd();  
    $dir = scandir($cwd);  
    foreach($dir as $d)  
    {  
        if(is_dir($d))
```

```
        echo "<br> $d";
    }
?>
```

OUTPUT :

```
Practical1
Practical2
Practical3
Practical4
```

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

3. Write a php script which reads and display each file of a specified directory.

INPUT :

```
<?php
$cwd = getcwd();
$dir = scandir($cwd);
foreach($dir as $d)
{
    if(is_file($d))
```

```
        echo "<br> $d";
    }
?>
```

OUTPUT :

```
p1.php
p2.php
p3.php
```

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

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.

INPUT :

```
<?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);  
  
    }  
  
?>
```

#### OUTPUT :

```
p1.php create date : 06-11-2019 access date :  
06-12-2019 author : KR\KR  
  
p2.php create date : 06-11-2019 access date :  
06-12-2019 author : KR\KR  
  
p3.php create date : 03-12-2019 access date :  
03-12-2019 author : KR\KR
```

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

5. Write a php script which reads and display each file of each directory

#### INPUT :

```
<?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/>";
}
?>
```

OUTPUT :

Practical1  
p1.php  
p2.php

Practical2  
p1.php

p2.php

Practical3

p1.php

p2.php

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

6. Write a program to create, copy and delete a directory using php.

INPUT :

```
<?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");
?>

```

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

10. Create a database 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?

INPUT :

```
<?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>";
```

```
}
```

```
?>
```

## OUTPUT :

insert a record with date and time

record inserted date and time 2019-12-07  
09:39:11

Insert a record with only date

record inserted date 2019-12-07

Insert a record with only Time

record inserted time 14:12:11

Retrieve a record which will display only date  
in the format dd/mm/yyyy

07/12/2019

07/12/2019

07/12/2019

07/12/2019

11/12/2014

Retrieve a record which will display date in the  
format mm/dd/yyyy

12/07/2019

12/07/2019

12/07/2019

12/07/2019

12/11/2014

Retrieve a record which will display date in the format yyyy-mm-dd

2019-12-07

2019-12-07

2019-12-07

2019-12-07

2014-12-11

Retrieve a record which will display date and time in the format dd/mm/yyyy hh:mi:ss

07/12/19 12:00:00

07/12/19 12:00:00

00/00/00 12:00:00

07/12/19 12:00:00

07/12/19 12:00:00

11/12/14 12:00:00

\*\*\*\*\*

\*\*\*\*\*

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.

INPUT :

```
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'=>$p
roductByCode[0]["name"],
'code'=>$productByCode[0]["code"],
'quantity'=>$_POST["quantity"],
'price'=>$productByCode[0]["price"]));
                }
                if(!empty($_SESSION["cart_item"])) {
                    if(in_array($productByCode[0]["code"],$_SESSIO
N["cart_item"])) {
                        foreach($_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;

}

break;

}

?

<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>
<?php
    }
}

?>
</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":\n\n    unset($_SESSION["cart_item"]); \n\n        break;\n\n        case "edit":\n\n            $total_price = 0;\n\n            foreach\n($_SESSION['cart_item'] as $k => $v) {\n\n                if($_POST["code"] ==\n\n$K) {\n\nif($_POST["quantity"] == '0') {\n\nunset($_SESSION["cart_item"][$k]);\n\n} else {\n\n$_SESSION['cart_item'][$k]["quantity"] =\n$_POST["quantity"];\n\n}\n\n}\n\n$_SESSION['cart_item'][$k]["quantity"] =\n$_POST["quantity"];\n\n}\n\n$total_price +=\n$_SESSION['cart_item'][$k]["price"] *\n$_SESSION['cart_item'][$k]["quantity"];\n\n}\n\nif($total_price!=0 &&\nis_numeric($total_price)) {\n\n
```

```
        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<?p
hp echo $item["code"]; ?>').style.display='block';"
onMouseOut="document.getElementById('remove<?ph
p 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>
```

```
        <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>
```

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**ASSIGNMENT: 3**

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<!-- 1-create-query.php -->

<?php

require_once('config.php');

$query = "

SELECT *
FROM information_schema.tables
WHERE table_schema = '$database'
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,'Mahar
ashtra',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>";
$query = "
SELECT *
FROM information_schema.tables
WHERE table_schema = '$database'
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
);
";

$is = mysqli_query($conn, $query);
if($is) {
    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;
    $is = mysqli_query($conn, $query);
    if($is) {
        echo "SUCCESS -> " . $key;
    } else {
        echo "FAILURE(Duplicate Record Possiblity) -> " . $key;
    }
}
```

```
echo "<br>===== <br>";
$query = "
SELECT *
FROM information_schema.tables
WHERE table_schema = '$database'
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',4000
01,'MAH',3000,200,100,'Good')",
    "INSERT into salesman_master
values('S00003','Ravi','P-
7','Bandra','Bombay',400032,'MAH',3000,200,100,'Goo
d')",
    "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 Possiblity) -> " . $key;
    }
}
```

```
echo "<br>===== <br>";
$query = "
SELECT *
FROM information_schema.tables
WHERE table_schema = '$database'
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('O19001','1996-01-12','C00001','','S00001','F','N','1996-01-20','IP')",
    "INSERT into sales_order values('O19002','1996-01-25','C00002','','S00002','P','N','1996-01-27','C')",
    "INSERT into sales_order values('O46865','1996-02-18','C00003','','S00003','F','Y','1996-02-20','F')",
    "INSERT into sales_order values('O19003','1996-04-03','C00001','','S00001','F','Y','1996-04-07','F')",
    "INSERT into sales_order values('O46866','1996-05-20','C00004','','S00002','P','N','1996-05-22','C')",
    "INSERT into sales_order values('O10008','1996-05-24','C00005','','S00004','F','N','1996-05-26','IP')"
);

echo "<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 = '$database'  
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)
        );
    ";
}

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

?>
```

```
<!--
=====
=====
```

```
<!-- 3-basic-query.php -->
```

```
<!--
=====
=====
```

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

```
// =====
```

```
echo "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%';  
  
  
$result = mysqli_query($conn, $query);  
  
  
if($result) {  
    echo "<table border= 1>";  
    while($fetch = mysqli_fetch_array($result)) {  
        echo "<tr><td>";  
        echo $fetch[0];  
        echo "</td></tr>";  
    }  
    echo "</table>";  
}  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
  
  
// ======  
echo "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%' ;";

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

if($result) {
    echo "<table border= 1>";
    while($fetch = mysqli_fetch_array($result)) {
        echo "<tr><td>";
        echo $fetch[0];
        echo "</td></tr>";
    }
    echo "</table>";
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

// =====
echo "c) Find the list of all client who stay in 'Bombay'
or 'Delhi'.";
$query = "SELECT name,city  from client_master
where city in('Bombay','Delhi');";

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

```
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
  
// ======  
echo "d) Print the list of client whose bal_due is greater  
then value 10000.";  
$query = "SELECT name,bal_due from client_master  
where bal_due > 10000 ;";
```

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

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

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

```
$query = "SELECT s_order_no,s_order_date 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);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . date('M d, \\'y',  
strtotime($fetch[1])) . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<br>";
```

```
// =====
echo "f) Display the order information for client_no
'C00001' and 'C00002'.";
$query = "SELECT s_order_no,client_no,s_order_date
from sales_order where client_no
in('C00001','C00002');";

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
}
```

```
    }

} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

// =====

echo "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 and
sell_price<=5000 ;";

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
    }
}
```

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

// =====
echo "h) Find products whose selling price is more than
1500. Calculate a new selling price as, original selling
price * .15. Rename the new column in the
above query as new_price";
```

```
$query = "SELECT
product_no,description,sell_price,sell_price * 15
\"NEW_PRICE\" from product_master where sell_price
>1500";
```

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

```
if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
```

```
        echo "<tr>";
        echo "<td>" . $fetch[0] . "</td>";
        echo "<td>" . $fetch[1] . "</td>";
        echo "<td>" . $fetch[2] . "</td>";
        echo "<td>" . $fetch[3] . "</td>";
        echo "</td></tr>";
    }
    echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

// =====
echo "i) List the names, city and state of clients who r
not in the state of 'Maharastra'";

$query = "SELECT name,city,state from client_master
where state <> 'Maharashtra' ;";

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

```
if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<br>";

// =====
echo "j) Count the total number of orders";
```

```
$query = "SELECT s_order_no from  
sales_order_details";  
  
$result = mysqli_query($conn, $query);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        echo "<tr>";  
        echo "<td>" . mysqli_num_rows($result) .  
"</td>";  
        echo "</td></tr>";  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
  
// ======  
echo "k) Calculate the average price of all the  
products.";
```

```
$query = "SELECT avg(cost_price) FROM  
product_master;";  
  
$result = mysqli_query($conn, $query);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<br>";  
  
// =====
```

```
echo "I) Determine the maximum and minimum  
product prices.";
```

```
$query1 = "SELECT min(cost_price) FROM  
product_master;"
```

```
$query2 = "SELECT max(cost_price) FROM  
product_master;"
```

```
$result1 = mysqli_query($conn, $query1);
```

```
$result2 = mysqli_query($conn, $query2);
```

```
if($result1) {  
    if($result2){  
        echo "<table border= 1>";  
        if(mysqli_num_rows($result1)){  
            $fetch1 = mysqli_fetch_row($result1);  
            $fetch2 = mysqli_fetch_row($result2);  
            echo "<tr>";  
            echo "<td>Min: " . $fetch1[0] .  
            "</td>";  
            echo "<td>Max: " . $fetch2[0] .  
            "</td>";  
            echo "</td></tr>";  
            echo "</table>";  
    } else {
```

```
        echo "<br><b>No records
found</b><br>";
    }
}else {
    echo "<br>FAILURE -> " . $query2;
}
} else {
    echo "<br>FAILURE -> " . $query1;
} echo "<br>";

// =====
echo "m) Count the number of products having price
greater than or equal to 1500.";
$query = "SELECT product_no,description,sell_price
from product_master where cost_price > 1500;";

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        echo "<tr>";
```

```
        echo "<td>" . mysqli_num_rows($result)
. "</td>";
        echo "</td></tr>";
    echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";
```

```
// =====
echo "n) Find all the products whose qty_on_hand is
less than recorder level.";

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

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

```
if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
```

```
while($fetch = mysqli_fetch_array($result)) {  
    echo "<tr>";  
    echo "<td>" . $fetch[0] . "</td>";  
    echo "<td>" . $fetch[1] . "</td>";  
    echo "<td>" . $fetch[2] . "</td>";  
    echo "<td>" . $fetch[3] . "</td>";  
    echo "</td></tr>";  
}  
echo "</table>";  
} else {  
    echo "<br><b>No records found</b><br>";  
}  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<br>";  
?>
```

```
<!--
=====
=====
== -->
```

```
<!-- 4-date-query.php -->
```

```
<!--
=====
=====
== -->
```

```
<?php
require_once ('config.php');
// echo strtotime("now");

//
=====
```

=====

=====

=====

```
echo "a) Display the order number and day on which
clients placed their order.";
```

```
$query = "SELECT s_order_no, s_order_date from
sales_order";
```

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

```
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . date('D',  
strtotime($fetch[1])) . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<br>";  
  
//  
=====
```

```
echo "b) Display the month (in alphabets) and date  
when the order must be delivered.";  
  
$query = "SELECT dely_date from sales_order";  
  
  
$result = mysqli_query($conn, $query);  
  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . date('M',  
strtotime($fetch[0])) . "</td>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . date('F',  
strtotime($fetch[0])) . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";
```

```
//=====
=====
=====

echo "c) Display the order_date in the format 'DD-
Month-yy'. e.g. 12-February-96.";

$query = "SELECT s_order_date from sales_order";

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . date('d-F-y',
strtotime($fetch[0])) . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
}
```

```
 } else {
     echo "<br>FAILURE -> " . $query;
 } echo "<br>";

//=====
=====

echo "d) Find the date, 15 days after today's date";
echo "<table border= 1>";
echo "<tr><td>";
echo date('d-M-Y', strtotime("+15 days")) . "<br>"; //18-04-20
echo "</td></tr>";
echo "</table>";

//=====
=====

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

```
$query = "SELECT dely_date from sales_order";  
  
$result = mysqli_query($conn, $query);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
  
            $date1 = date_create($fetch[0]);  
            $date2 = date_create("now");  
  
            $diff = date_diff($date2, $date1);  
  
            echo "<tr>";  
            echo "<td>" . $diff->format('%R %a  
days') . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {
```

```
    echo "<br>FAILURE -> " . $query;  
} echo "<br>";
```

```
//  
=====
```

```
?>
```

```
<!--  
=====
```

```
<!-- 5-having-keyword-in-query.php -->
```

```
<!--  
=====
```

```
=====
== -->

<?php
require_once ('config.php');

//=====
=====

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

$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);

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
```

```
        echo "<td>" . $fetch[0] . "</td>";
        echo "<td>" . $fetch[1] . "</td>";
        echo "<td>" . $fetch[2] . "</td>";
        echo "</td></tr>";
    }
    echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

//=====
=====

echo "b) Find the value of each product sold.";

$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);

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

// =====
```

```
=====
=====

echo "c) Calculate the average qty sold for each client
that has a maximum order value of 15000.00./";

$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);

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
}
```

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

//

```
=====
=====
```

echo "d) Find out the sum total of all the billed orders  
for the month of January.";

```
$query = "SELECT
s.s_order_no,s.s_order_date,sum(so.qty_ordered*so.p
roduct_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);
```

```
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "<td>" . $fetch[2] . "</td>";  
            echo "<td>" . $fetch[3] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
?  
?
```

```
<!--
=====
===== -->

<!-- 6-joins-query.php -->

<!--
=====
===== -->

<?php
require_once ('config.php');

//
```

```
=====
=====
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);  
  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
}
```

```
    } else {
        echo "<br>FAILURE -> " . $query;
    } echo "<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);
```

```
if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<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);  
  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<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);  
  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "</td></tr>";  
        }  
    }  
}
```

```
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<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);
```

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "<td>" . $fetch[2] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    }
}
```

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

```
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "<td>" . $fetch[2] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
}  
echo "<br>";  
?  
?>
```

```
<!--
=====
===== -->
```

```
<!-- 7-sub-query.php -->
```

```
<!--
=====
===== -->
```

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

```
//
=====
```

```
=====
=====
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);

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td>" . $fetch[0] . "</td>";
            echo "<td>" . $fetch[1] . "</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
```

```
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

//=====
=====

echo "b) Find the customer name, address1, address2,
city and pin code for the client who has placed order no
'O19001'.";

$query = "SELECT
name,address1,address2,city,pincode from
client_master

where client_no in (select client_no from sales_order
where s_order_no='O19001');

';

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

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
```

```
echo "<tr>";
echo "<td>" . $fetch[0] . "</td>";
echo "<td>" . $fetch[1] . "</td>";
echo "<td>" . $fetch[2] . "</td>";
echo "<td>" . $fetch[3] . "</td>";
echo "<td>" . $fetch[4] . "</td>";
echo "</td></tr>";
}
echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<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);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "<td>" . $fetch[0] . "</td>";  
            echo "<td>" . $fetch[1] . "</td>";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {  
        echo "<br><b>No records found</b><br>";  
    }  
} else {  
    echo "<br>FAILURE -> " . $query;  
} echo "<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);  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";
```

```
        echo "<td>" . $fetch[0] . "</td>";
        echo "<td>" . $fetch[1] . "</td>";
        echo "</td></tr>";
    }
    echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<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);

if(\$result) {

    echo "<table border= 1>";

    if(mysqli\_num\_rows(\$result)){

        while(\$fetch = mysqli\_fetch\_array(\$result)) {

            echo "<tr>";

            echo "<td>" . \$fetch[0] . "</td>";

            echo "</td></tr>";

    }

    echo "</table>";

} else {

    echo "<br><b>No records found</b><br>";

}

} else {

    echo "<br>FAILURE -> " . \$query;

} echo "<br>";

?>

```
<!--
=====
=====
== -->
<!-- 8-sentence-query.php -->
```

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

```
//
=====
=====
=====

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);

if($result) {
    echo "<table border= 1>";
    if(mysqli_num_rows($result)){
        while($fetch = mysqli_fetch_array($result)) {
            echo "<tr>";
            echo "<td style= 'border-right: none;
text-align: right;'>Product: <b>" . $fetch[0] . " </b>
worth Rs. -></td>";
            echo "<td><b>" . $fetch[1] . "</b> were
sold</td>";
            echo "</td></tr>";
        }
        echo "</table>";
    } else {
        echo "<br><b>No records found</b><br>";
    }
} else {
    echo "<br>FAILURE -> " . $query;
}
echo "<br>";
```

```
//  
=====  
=====  
=====  
  
echo "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 ordered in the month of {order_date in month  
format}.";  
  
$query = "SELECT * FROM product_master WHERE 1 =  
2;"  
  
  
$result = mysqli_query($conn, $query);  
  
  
if($result) {  
    echo "<table border= 1>";  
    if(mysqli_num_rows($result)){  
        while($fetch = mysqli_fetch_array($result)) {  
            echo "<tr>";  
            echo "Nai Ata";  
            echo "</td></tr>";  
        }  
        echo "</table>";  
    } else {
```



```
if(mysqli_num_rows($result)){
    while($fetch = mysqli_fetch_array($result)) {
        echo "<tr>";
        echo "<td>Cust. Name: <b>" . $fetch[0]
. "</b> has ordered </td>";
        echo "<td>Order No. : <b>" . $fetch[1] .
"</b> on </td>";
        echo "<td> <b>" . $fetch[2] .
"</b></td>";
        echo "</td></tr>";
    }
    echo "</table>";
} else {
    echo "<br><b>No records found</b><br>";
}
} else {
    echo "<br>FAILURE -> " . $query;
} echo "<br>";

?>
```

```
<!--  
=====-->
```

```
<!-- config.php -->
```

```
<!--  
=====-->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">  
<link rel="stylesheet" type="text/css" href="css.css">
```

```
<?php
```

```
$servername = "localhost";  
$username = "root";  
$password = "";  
$database = "rcc-ass3";
```

```
$conn = mysqli_connect($servername, $username,
$password, $database);

if($conn->connect_error) {
    die();
} else {
    // echo "Connection Established Successfully";
}

?>

<!--
=====
-->

/*=====
=====
*/
/* CSS FILE*/
```

```
/*=====
=====
* {
    font-family: 'Verdana';
    box-sizing: border-box;
}
input[type = text], input[type = number], button,
select {
    font-size: 18pt;
}
tr{
    border-right: none;
    border-left: none;
    border-bottom: none;
    border-top: none;
}
td {
    border-left: none;
    border-top: none;
    padding: 10px;
}
```

```
td:hover{  
    background-color: #ddd;  
    cursor: pointer;  
}  
.rst {  
    background-color: red;  
    color: white;  
}  
.sbt {  
    background-color: green;  
    color: white;  
    font-size: 15pt;  
}  
.text-center {  
    text-align: center;  
}  
  
table {  
    border: 1px solid grey;  
}  
  
/*======  
=====*/
```