Web programming

- on what is world wide web (www)?
 - An internet based hypertex project that allows global information Sharing
 - It's Collection Of interlinked multimedia documents that are stored in internet

and deployed.

02) Different between internet and www

of bapa stIntenet without some www mu

- 1) It's global network connecting Obystem of internet serves
- 2) Decentralized
- Millions Of Computers that Special documents
 - 1 Document are formated in a markup language
- An application refers to the Overall Structure 03) Structural Components Of WWW
 - Client
 - Server
 - Internet Hich Server architetemental -

- A Software architecture model Consisting of Two Syntactic Components mater thail)

- Server System 9774-
 - HTML (NML)
 - URL communicating over a 19U-

Computer network or on the What is HITP?

Lapton

- Is an applicatio layer protocol
 - HTTP Communicate between Computer and web Server BS Atlas

- 06) Define HTML
 - Starndard Markup language for Creating web pages and describes the Structure Of Web page
 - HTML element tell the browser how to Display the Content
- OT URI
 - uniform resource identifier is intended to identify abstract or physical resources On the internet
- 08) Define web architecture
 - An application refers to the Overall Structure Of an application, including designed, implemente and deployed.
- 09) Explain Client Server architecture
 - A Software architecture model Consisting of Two,

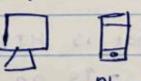
Carried april

- Client System Client Server model

- Server System

· both Communicating over a Computer networt or on the the Same Computer

epplicatio layer fromocol





Phone

- 10) What is dient - The request Of services and the server is defined as the provider Ot Services
 - pfilidelian bacongmel -11) Characteristics Of a Client
 - Initiates requests
 - waits for and recieves replies
 - ex: email Client, beweb browsers.
 - and internet protocol is Coped 12) What is Server
 - Host that is ranning one or more Server programs that Can Share information or resourses.
- 13) Characteristics Of Server.
 - passive (slave)
 - Wait for requests from Client
 - ex: Web Server, mail Server
- 14) Explain Multi tier achitecture?

Augramming language (Java, CH, CH)

- Is three-tier architecture

Ettilet 11112 200 212421 DIEOI bad noitatassara) .

- A Client-server achitecture in which presented applicatio, proccesing and data management Functions are losically Separate. III (DATO DOSE CUES ON SIN

is) Benifits Of three-tier architecture - Faster development - Improved Security - Improved reliability 16) What is web application - An application that uses web Technologi including web browsers, web Servers and internet protocol is Called a web application 17) Web Oriented three-tier architecture. -Presentation tier · Browse Client · Client Side Scripting (JavaScrip) - logical tier · web Serve (Apache) · Scripting language (PHP) · Programming language (Java, C#, C++) - Data tier - DBMS (Oracle , MySQL) - 2MLDB 1 - tier Architecture (All 3 layers are on the Same machine)
2 " (Database runs on aserve) . (Presentation and losic layers are Still fishtly Connected)
3 - tier " (each layer Can potentially run Ondifferent Machine)

Server - side - Method of programming, web that runs Software on the Server rather the browser ex: PHP, Ruby - Customize a web page and dynamically Changes it Content 04) What is PHP ! - "PHP: Hyper tex preprocessor" - Is a widely used open-Source general-purpose Server-side Scripting language - It's especially suited for web development Con be executed 05) How PHP works 2) Client page reques and and 9 - Mostly used for rowine tasts yes HTML Output retu Decision Making based to browser On requested page 3012-11911) Code Content answerd deco -- Triallows more interactivity 06) To run ptp web pages three vital Components nell) web server (freality available Apoche Server) 2) PHP parser (Process php Script instructions) 3) Database Coptions) (MySQL using)

DE BORD

| 07) | What are the source |
|-------|---|
| | What are the Software use for setting up Development Server |
| | |
| 39 | - WAMP (windows, Appache) MySQL, PHP) - LAMP (Linux, Appache) " . ") |
| | - MAMP (Mag Assay |
| | - MAMP (Mac, Appache, MySQL, PHP) |
| 08) | Writ PHP Syntax |
| | - THIS Case See Duy / |
| | - It's Case sen Bitive language "VAR NOT The Same |
| | wot "var" a price with the rules aft and takes (40 |
| | Php ? 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| - | - It's extention ". Php" |
| | Underscore "-" |
| 09) | How to Print Hello world in Php |
| | <doctype h+m1=""> = 100 b = 100 b</doctype> |
| | < html> sldsnov_pln ? . |
| | < body> 91d5110√µM8 ← HTML Code |
| | <hi>My 1st Php page </hi> |
| | < ? PHP Date types 949 ?> |
| | echo "Hello world!" ; Php Code |
| | Print "Hello world" 3 |
| | - Float : Numbers with decimal points <9 |
| | selon is fine or folse |
| | 4/html> HTML Code |
| | Ct) Voriable Assignments |
| | Output // Hello world? |
| 3 Hor | Hello world a |
| | (aldonot) profession |

Basics Of PHP

- on What is PHP variable
 - you must place & in Front Of all Variables
 - variable names in php are Case- Sensitive
 - PHP automatically determines variable type
 - Integer
 - -floating
 - String RATHER 949 FROM (80
- 02) What are the rules for Choosing a name for you variable give 2 examples. (Variable naming Convention)
 - ") PHP variable must Start with a letter or underscore "-".
 - 2) variable with more than one word Should be Separated with underscore

(41) My 181 PAP POSE 5/M)

- · \$ My_variable
- My Varieble
- 03) PHP Data types
 - String : Alphabalical Characters
 - Integer: Whole Number
 - Float: Numbers with decimal points
 - -Boolean: True or false
- 04) Variable Assignments
 - Variable = Value
 - Variable = Variable (reassign the value anothe Variable)

Date: _/_ PPF02 What is echo and print and a serior (se 10) - echo and print, both used to output Data On Screen to hand - Two Statments can be so used with or without parenthese : and a man (a) en : print Or print() Comperition and logical Commands Such (omments be planting and and 11 One line Comment 1 Two line Comment of - Authmetic Operators (+, -, +, /, ++ Assignment Operators (+, ++, /=, /=) 12) Discuss declaring variables and assigning Values in PHP 3 Declaring la variable \$ my Variable 3 (3) Assigning a volue to variable <9899 Smy Variable = 10 3 1 Declaration and Assignment in a Single Line \$anothe Variable = "Hello, World ! "; echo \$atts \$ b7. = \$a; echo "/bis"; : d? adas echo ++ \$6 ; Ourput 1 & SOL Output // 10

- 05) What is Constants my but and a series (
- A Constants is a variable whose value Cannot be Changed at runtime

Two Statements can be wused with a

- 06) What is Operators
 - Operators are the mathemetical, String, Comparition and logical Commands Buch as plus, minus, multiply and divide
- 07) Types Of Operators
 - Arithmetic Operators (+,-,+,1,++)

11 One line Comment

- Assignment Operators (=, ++, /=, /=)
- Comparision " (==, P=, >=, <=)
- logical " (88, 11, or, and)

example: @ example:

ald and pate

< ? Php

<? Php

\$a = 10; \$b = 50;

8b=5; \$a=10;

echo \$a++;

\$ b7. = \$a;

echo "/br>";

echo \$b;

echo ++ \$b ;

?>

Output /1 \$ 50

Output // 10

```
04 | Else Statment
                  tulker is an expression
 <? Php
 $ nam 1 = 105
          $ num2 = 20;
if ($num1 > $ num2 ) {
           echo "snumi is grater than $numi";
           3 else q
             echo "$numa is grater than $num 1";
      2>
            // Output num2 is grater than tnum!
          1 output 20 is grater than 10
05) Elseif Statment
     <? Php
        $ num1 =10;
       ( $num2 = 20; 200 + 100 ) satt 310 + 34(A) (20
         if ( $num > $num2 ) {
           echo "$num is grater than $num2";
        felse if € $num1 == $num2) {
          echo "$num! in equal to $num";
         3 else {
          echo "$num2 is grater than $num1";
           ( ( ) etab - + 3
                1+ ( St 5 20") fi
     7>
  Output // Same on else
                 20 is grater than 10
```

```
06) Switch Statment
  <? Php at constant regge as part -
       Switch ( Spase)
  - same Sequence Of Code again and again
       Case "Home":
          echo "you selected Home";
          break;
       Case "about":
          echo "you Selected about";
       (ase "News":
          echo " you Selected News" >
       3
                10) < 9 Php ( While loop)
                      Enum?
     <?>
               3 (2=> munt ) stide
   ? Operator " AND DOUBH ! DADD
07)
       - Compact version of if ... else
        - It must evaluate, along with two statment
         to execute toust 1 tages 57
           - One for TRUE
           - Other One for FALSE
                 Hello &
  ex:
    <? Php = (Prim 5 hadda ?>
      $ enough = $ fuel < = ? "fill tank now" : "Ther's
        enough fuel";
     < 5
```

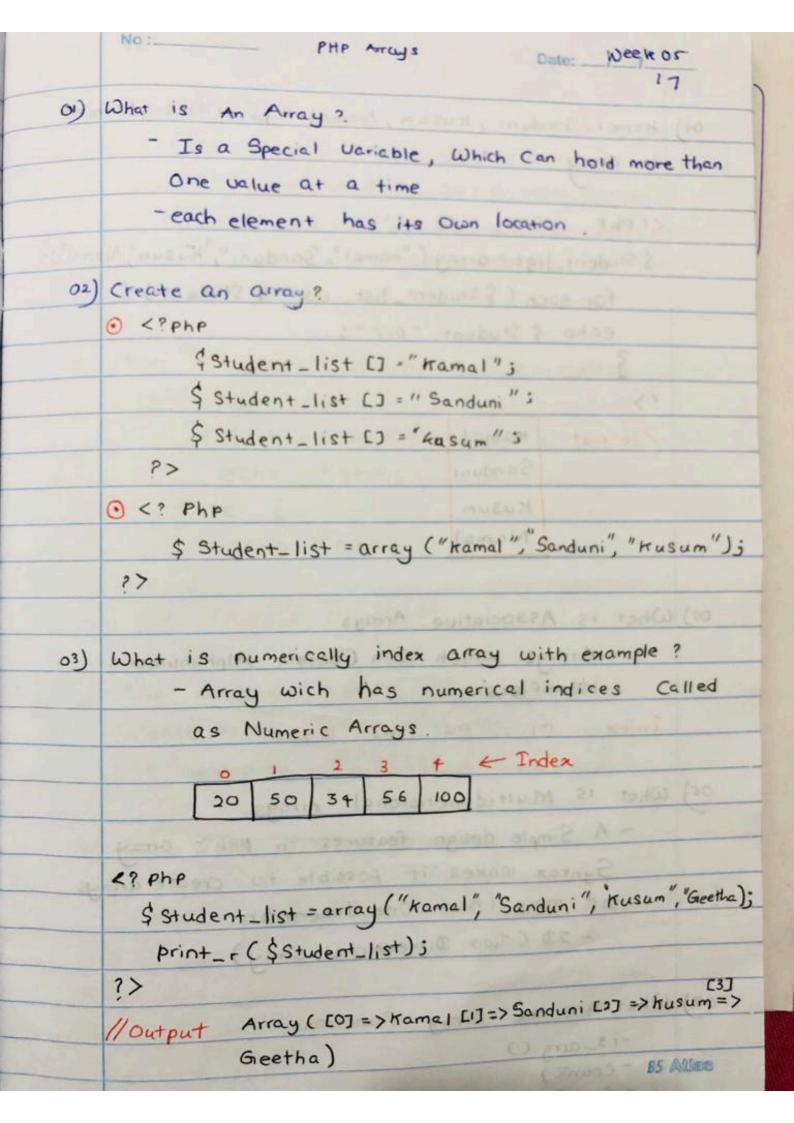
| | No: Date:/_14 |
|-------|--|
| 08) | What is looping to some Astronal (20) |
| | - They can repeat Calculating task quickly |
| | and tirelessly (seeds) notice |
| | - Same Sequence or Code again and again |
| | until reaching a natural end |
| | echo "you selected Home"; |
| روه | Types Of looping insend |
| | - While loop " pods" see) |
| | - Do-while loop and one |
| | - For loop " " ewell " 980) |
| | echo " you selected News" i |
| 10) | Php (While loop) ?</th |
| | \$num = 1 3 |
| | While (fnum <= 5) { |
| | echo "Hello (br/>"; rotorego 9 (10 |
| | Sinum tit jeo noision of the munis |
| taga | - It must evaluate, along with the state |
| | ?> output // Hello } supers of |
| | Hello & 101 910 - |
| | Helo To THE - |
| | Hello & |
| | Hello & (Print 5 hello) |
| 21191 | Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fuel < = 1 "fill tonk now": "T Senoush \$ fue |
| | (soil adenous 5 |

enoush faet" ;

< 9

```
Date: __/__/-15
 11) Do --- While loop
    ex: <? Php
                                   CPPNP C
             Snum = 1 3 1 10 2 12 12 12 12 12 12
            do { 3 (2== 12) +1
             echo " Hello Kbr/> ";
            $num ++ >
          3 while ( fnum < 5);
    output // Hello
                         (If its <=5 Print AHello)
              Hello
              Hello
              Hello
12) FOT 100P
    C? Php
        For ( $num = 1; $num <= 5; $num++) {
          eho "Hello Cbr/>";
    ?> // Output (Hello for five times)
13) Break
      <? Php
          for ($i = 1; $ 1<10; $ 1++) $
            if ($i == 5) {
             breaks
         echo $1. " <b-/> " ;
                                          85 Atles
   3>
            Output 11
```

| | | accesses. |
|-----|--|-----------|
| | No:Date:// | |
| 14) | Breeck Continue 900/ stradof | (11 |
| | Php 9/1955 1851</th <th></th> | |
| | for (\$i=15 Sicios \$i++) & | |
| | if (\$i == 5) { | |
| | Continues and words | |
| | 3 (++ mx n 2 | |
| | echo \$1. " < b+/> " > > 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| | 3 | |
| (0) | Output // Hello (If its L=5 Print 549) | |
| | Output // Ollsh | |
| _ | Hello | |
| | The Park Control of the Control of t | |
| | 100 100p | (2) |
| | C3.646 | |
| | 3 (++mun? : 2=> mun? : 1=mun?) +07 | |
| | CHO "Hello chr/2"; | |
| | | |
| | ?> // Ourput (Hello For Flue times) | |
| | 14 100 11 13 1 | |
| | | |
| | Breat | (81 |
| | 3(++12 :01) \$:1= 13 \$ 107 | |
| | | |
| | 3(5=15) +1 | |



```
04) Kamal, Sanduni, Kusum, Namal print this Names
cart in array as will see all the see a st
    <? Php assessed and and translations
     $ Student_list = array ("kamal", "Sanduni", kusum", Namal");
        for each ($ student_list as $ Student) {
        echo $ Student. "br/";
     ?>
     /output
               ramal
               Sanduni
               Kusum
               Namal
 05) What is Associative Arrays
     - Arrays which Can Contain Alphanumeric
      identifiers some earl daily pant
     Irdea mi ma ma ma
 06) What is Multidimensional arrays
       - A Simple design features in PHP's array
        Syntax makes it possible to create arrays
  Of more than one dimention
          - 2D (Two Dimentional array)
 07) What are the array functions
       -13_arry ()
       - count()
                                            85 风仙曲3
        Sort ()
```

07

BS Asles

- Servery ward Designer os) What is Cookies? - An item Of data that a web server Saves to your Computer's hard distruic web browser (1) (1) (1) (1) (1) (1) (1) (1) (1) - Can be retrived from your Computer and retured to the Server! - MySQL Comains one or more tables Oc) Common uses Of Cookies ? a) Session tracking 1 10 mmlo) - Storing login details or what are the Terminology SQL 07) What is Sessions - general - Sometimes want to track what your users are doing from one web page to anothe - A Session Start with the Session_Start() Function 03) How to connecting to MuSQL Mason Connect () of What are the parameters Server (localhost) (toot) gmontseu (JOSEWORD (PROSESCIOL SINGE TO MYSCOL) or) council to detabase (lesing (concelion - White (1000 (\$1000);

No:

Working with Database

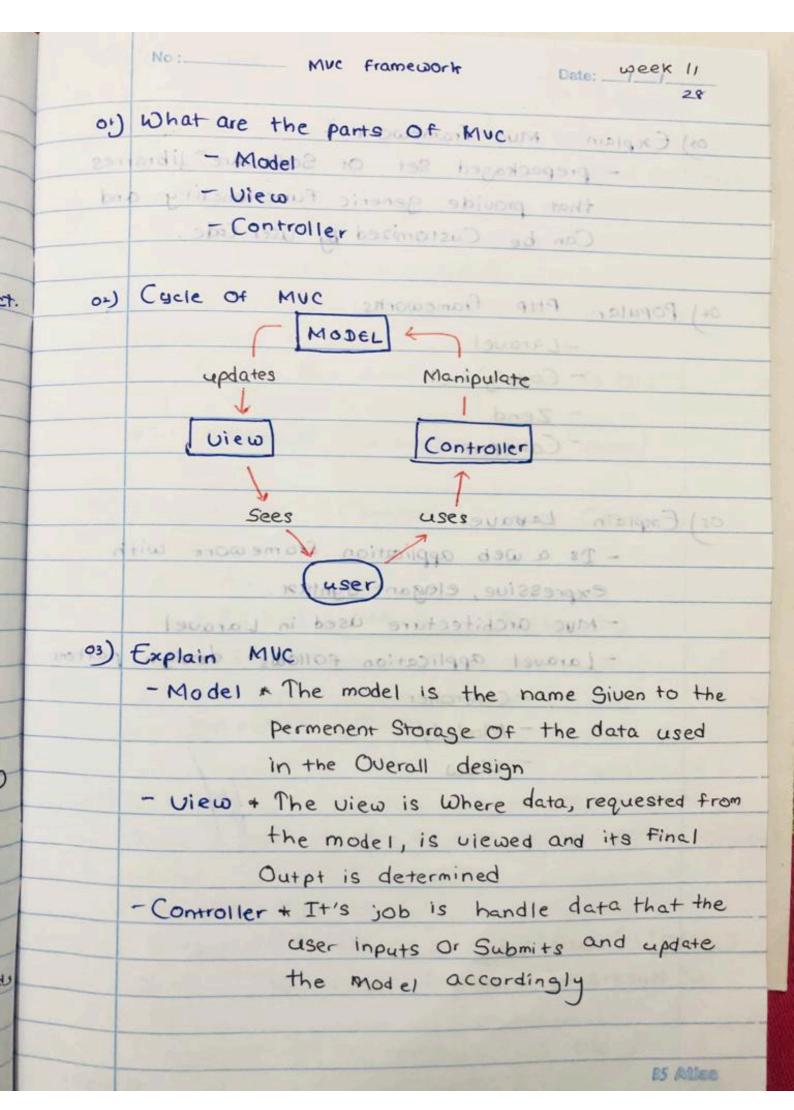
- 01) What is MySQL
 - Popular Database Allanasment System for Web Server
 - It's fee to use
 - Powerful and exceptionally fast
 - My SQL Contains one or more tables, Which Contain record or rows
 - Column or fields that Contain the data
- 02) What are the Terminology SQL,
 - * Database Collection of MysQL Data
 - * Table Sub Container that Stores actual data
 - 1 Row A single record within a table
 - + Column Name Of field within a row
- 03) How to Connecting to MySQL

MySQL_ Connect ()

- 04) What are the parameters
 - Server (localhost)
 - username (root)
 - password (password, given to MySQL)
- os) connect to database Obsing a Connection
 MySal Close (\$ con);

05) How to inserting Data mySQL (PHP) 1 & query = " INSERT INTO Student (StuID, Stu Name, email) particle & quite VALUES (100731, 1 Nimal), Nimal@gmai. on); & result = Mysql - query (\$ Connection, \$ query); echo "inserted Successfully"; } - when you want to force date from 06) How to update Data MySQL supdate \$ query = " TupDATE Student SET email= "kamal@smail" WHERE Student ID = '0073' 3 Oi) How to fetch Data \$ result = mysql-query (\$(onnection, \$query) i mysqli fetch array () echo " updated Succesfully " 3 } () swor mud lipsum How to delete Data MySQL 07) Creare detabase \$deletequery = "delete FROM Student WHERE Stull" 0073 " (NAME OF A STAND) & result = mysqli-query (& connection, &deletequery) echo "delete Successfully"

| | No: Object & Operation Date: Week to |
|-----------|---|
| | 25 |
| 01) | What is Oop ? |
| | - Object Oriented programming is stands for |
| | OOP Stands for |
| | - Creating Objects that Contain both data |
| | and functions |
| | Object's properties upon Creation Of to |
| 02) | What IS Object? |
| | x Attributes - Characteristics or properties of |
| | the Object |
| | * Methods - things that the Object Can do |
| | s another is the content of |
| 03) | What is Class? |
| روت | Class represent a Collection as all |
| 601 | Class represent a Collection of Objects having |
| | Same Characteristic properties that exhibit |
| | Common behavior |
| | Object is an instance of a Clars |
| | |
| | Oop Concepts assisted assisted to the life |
| Startures | - Enscapsulation |
| | -Abstraction by the state of |
| 3141 | - Inheritance 1110) stavist |
| | -POlyman ohism |
| | Donutinadai al Halla (po |
| 0+) | Syntax Class |
| a States | L? Php |
| | Class Student & |
| | 2 |
| | B5 Alles |



| No: |
|--|
| |
| 03) Explain Muc Framework ? sat sie todal (10 |
| - prepackaged set or software libraries |
| that provide generic functionality and |
| Can be Customized by user Code. |
| 04) Popular PHP frameworks DUM 10 51500 (00 |
| -Laravel Jacott |
| - Codeignitet |
| - Zend |
| - Cakephpio) (waiv) |
| The last the state of the state |
| 05) Emplain Lavavel |
| - Is a web application framework with |
| expressive, elagant Syntax. |
| - Muc architecture used in Laravel |
| - Laravel application follows design |
| - Controller show and a labour - |
| Permenent Stolels Models to manage |
| To Uiew Ilangio ant ai |
| - Wiew + The view is where doto, requested from |
| Lanit et bes secial (1977), 1980 ment |
| Outpt is determined |
| -Controller + It's you les bandle idet a thich ing |
| Stopped brief 2 timbut 2 topped topped appets |
| planded Do is tomo ont |

-

BS Asline

```
on Write down PHP Code Segment to print whether
   18Php
    $ number = 10: 1 can add any Number
    if ($number 1. 2 == 0) &
      echo "The number Snumber is Even";
    3 elese {
      echo "The number Inumbe is odd";
   ?> Output // The number 10 is Even
02) Example for ? Operator (Ternary Operator)
    < ? Php
   $5=0;
   $a = $s >= 1 ? "Monday": " Tuesday " >
   echo $a;
   5 >
      Output // Tuesday
03) Write down PHP Code Segment to print a
   Siven number is odd or even using ternary opente
  <? Php
   Shumber = 7;
    $ result = ($number 1.2 == 0) ? "Even" : "Odd" 5
   echo "The number $number is $ result ">
```

output // The number 7 is odd

?>

Date: __/__/ 32 No:____ Octput 11 While loop <? Php 3 \$ 1 = 1; do € echo \$: " < b+ > "; \$1++3 10 3 While (\$i <= 10); ?>

6) user Mame: LPDOCTYPE html> <html) Lhead) Ltitle > Login </Little> 4/head> Lbod J) L form action = "login.php" method = "post" > Liable & for= "username" > Username: </lable!> Linput type = "tent" 1d = "username requir Lbr) Lbr> Liabel for "password" > Pessword: L/label> Linput type = "Password" id "Password"
 Linputtype = "Submit" Value = "Losin"> B5 A (/form>

```
</body>
(1html>
L? Php
  14
  ($ Server [ "REQUEST METHOD "] == "POST") {
       $ entered_username = $ POST ['username'];
      $ entered_password = $ POST ['Passaword'];
    echo "Entered username: " Sentered_username. "<br/>
"Entered_username."
    echo "Entered password: " Sentered_ password " Abri
  3
 ?>
```