STEPS:-

- 1. Create DB & table using php createdb.php
- 2. Connecting to php connect.php
- 3. Register new user reg.php insert.php
- 4. Login user

login.php check.php

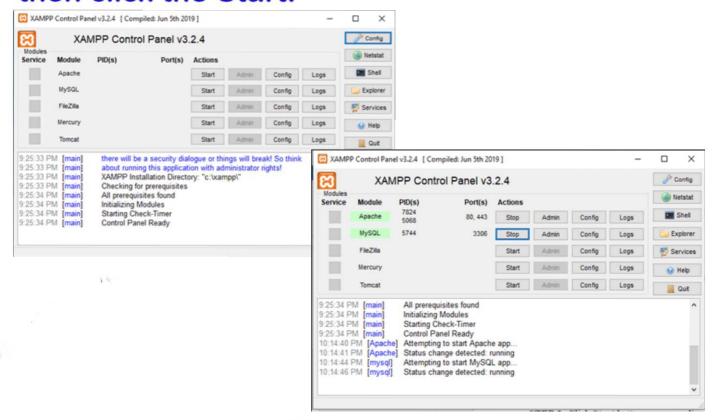
- 5. Resulting page welcome.php
- 6. Logout logout.php

To run:- (in URL of chrome:-)

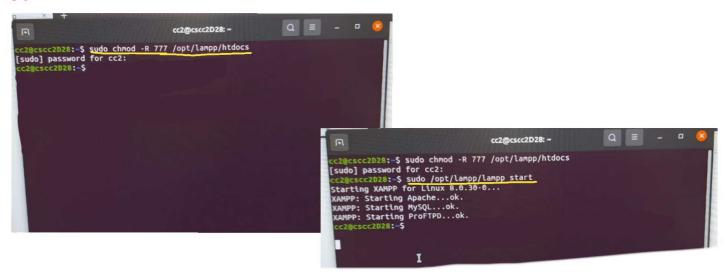
localhost/createdb.php localhost/login.php (register new user) localhost/login.php (login existing user)

First, Start apache and mysql:-

in XAMPP, open Xampp control panel then click the Start.



for LAMPP, open terminal & type the underlined in terminal :-



That is;

sudo chmod -R 777 /opt/lampp/htdocs & sudo /opt/lampp/lampp/start

<5b/b & server name = "localhost"; \$ username = "root"; \$ password= "" \$ conn = myseli-connect (\$ server name, & username, & passuard if (strong) die ("Connection faited: ". myspli-errox (Aconn) else Connected successfully"; " CREATE. DATABASE (modb)" = mysqli-query (\$con, \$sql); if (! Fretval) die (" Could not create databage: ". myseli-error (tronn)) ولاو echo. "Database meado created successfully In mysgli-select-db (\$corr, 'modb');

Create database of table using Pyp.

(created b. php). (RUN)

\$5922 = "(REATE TABLE Studtable) (id: int poimary key, NOT NUL AUTO INGEMENT)

username varchax (30) NOT NUL, password varchax (30) Not hull,

email washes (3) intill, name varchax (30) not null, course varchax (30) not null,

Mork int not null,)";

the return 2 = mysgli-query (\$conn, \$s9(2);

if (! \$return 2)

if ("(ould not create table: "mysgli-error (\$conn));

else

Echo" Table studtable created successfully";

Registerdoom

(reg. html)

```
Chine Reporter (/title)

(head)

(body align="center")

(h1) Reportation Form (1h1)

(form action = insest.php method="POST" on Submit = "teturn validate()")

(form action = insest.php method="POST" on Submit = "teturn validate()")

(form action = insest.php method="POST" on Submit = "teturn validate()")

(form action = insest.php method="POST" on Submit = "teturn validate()")

(form)

(h1) Reporter (/title)

(h2) Course | Comme = "teturn validate()")

(form)

(h2) Reporter (/title)

(h2) Consult: (input type = "text" name = "rourse")

(br)

(course: (input type = "number" name = "rourse")

(br)

(input type = "submit" name = "submit" value = "Submit")

(input type = "seset", name = "reset" value = "Reset")

(Iform)
```

```
(script)
function validate() }
     Varumane = document-forma ["frm" ["wrname" ]. value
      vor name = do comet. Forms [ frm ] [ rname ] . value;
     var mail = document. forms [forms [ [mail]
                                                      I. value;
     vor course: document. Forms ["frm"] ["course]. value;
      var maak = document.forms ["frm"] ["mark"]. value;
too pass = document.forms ["frm"] ["pass"]. value;
     ADD borre
      Var utnametormat = /1 [a-zA-ZO-9._-]$/
      var nomeformat: // [a-ZA-Z]$1;
       voir. mail tormat = / N[a-z A-Z0-9. -]+ @ [a-z A-Z0-9. -]+1. [a-z A-Z] [24]
        var markformat=/1/0-9]$/;
       it, (Urname == null | Urname == " ") }
              alext (" Usrname cannot be amply");
               return False;
       if (name == null | name == "") & alest (" Name count be empty").
                retumfalse;
           else if (Mname, match (name (ormate))) }
              alest ("Involid name format");
               return false;
        if (mail == null 11 mast=="") }!
              alert (" Most count be empty");
              return false;
        else if (! ( mail match (mail bound) )) ?
               alert ("Invalid mail pomet");
                return false;
        f (course == null // course == ") }
              alest (" Course cont be empty");
              return false;
       if ( mark == null | mark == " ") }
              alex (" Mark can't be empty");
             . return false;
       else if (! (mark.match (markformat))) {
                 atest (" Involid most format");
                  return False;
```

if (pass == null [pass == "");
alert (" Password can't be empty");
return false;
elbe &
alert (" Submitted successfully ");

\(\) \(\

(4) Insert repostered user (insert. php) < ; bpb include (connect. php). if (\$-POST) \$ usrname = \$ POST ['urname']; \$ name = \$ - POST [orname]
\$ email = \$ - POST [rmail] & course = 5-POST [rounge] \$ mark = \$ - POST ['mark']; INSERT INTO Studtable VALUES (Surname, & password, Semail', Sname', '\$ course', 's mark') \$ retual = mysoli-query (\$ conn, \$ sol). if (! \$ retval) die ("(ould not register try again: - myseli-error (\$ conn)). echo" Registered successfully " ?>

(5) Lagin page (login.php) <? php include ('connect.php'); session-start (); <html> <head> <ti>He> Login </title> (Thead) < body align = "certer"> <h1> Login Form </h1> check.php nethod= "POST"> (form action = " Osername: <input type=text name="uname"> <67 Password: (input type="password" name=" pword") (input type = "submit "name = "submit" value = "Submit") (Joan) <a href="tpath | reg. php | Register New Usea </body> (Ihtml) <? Phip it (\$ - CELL) smsg= \$ GET [message];

echo " (br.> (br)". \$ msg.;

177

```
(6) Check very logniser (check. php)
 <?php
    include ('connect.php');
    session_start();
    if ($_ROST)
       $ uname = $ - POST [ unamp ];
       $ pword = $-POST [ pword ]:
       $521 = myseli-query (& conn, "SELECT * FROM studtable WHERE
                                usernance: Sunance OR password: $prod
      while ($row = mysqli-fetch-assoc($521))
         $ 26 uname = $ row [username ]
        Epoward = Srow [ passwood]
       if ( isset ($dbuname) && isset ($db pword))
          if ($dburanc == $uname && $dbpword == $pword)
```

\$_SESSION [loginuser] == \$dbuname;

```
$_SESSION ['loginpass'] == $dbpword;
header ("Location: Welcome.php");
else if ($dbuname == $uname && $dbpword! = $piword)
header ("Location: login.php? message = Wrong password");
else if ($dbuname! = $uname && $dbpword == $pword)
header ("Location: login.php? message = Wrong username");
}
else
Neader ("Location: login.php? message = Invalid username or password");
}
```

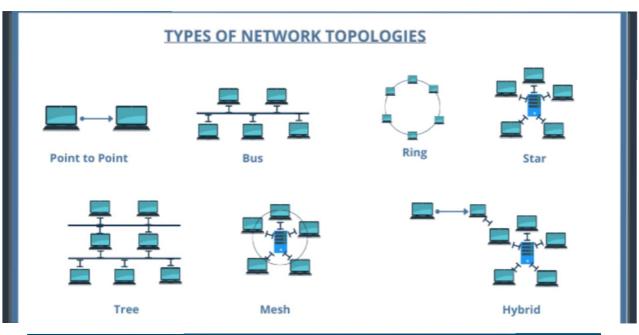
```
(7) Resulting page (welcome.php)
   <?php
      include ("connect. php");
      Session-start();
       $uname = $-SESSION [loginuser];
       $pword=$-SESTON[login pass];
      $521 = mysqli-query ($conn, "SELECT & FROM studtable WHERE
                              username = $ uname OR password = 'Spword')
    ?>
  <html>
   (head)
   (title)
   </head

<body align="center">
   Soph
     while ($row = mysgli-fetch-assoc ($391))
    2>
    (to) Name (1th)
         <?php echo"<td>" = $row[name].""; ?>
     </ta>
     Course </rr>Course """"""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""""<
     (1/8>
```

<+r>> <+r>> <+r>> Mosk <1+h> Email C? php echo "
td>". \$row [email]."
?> <? phe 3 ?> < form action = "logout.php" method = "post"> name= "submit" value= "Logout"> < input type= "submit" (form) <1body> </html>

(8) Logorthile - (logout.php) Session - start (); session - unset (); session - destroy(); header ("Location: login.php");

for viva... (chodhikkuvanel..)



TYPES OF NETWORK DEVICES



REPEATER 🐗



A repeater is a two-port network device that regenerates the signal over a network before it becomes weak or gets damaged.

BRIDGE



A bridge is a device that joins any two networks or host segments together.

MODEM



Modems are devices that transform digital signals into the form of analog signals that are of various frequencies

NETWORK HIIR



A network hub is a multiport repeater that connects multiple wires from different branches.

NETWORK SWITCH



Switches play a more important role than hubs. A switch is a multi-port device that enhances network efficiency.

GATEWAY



As the name suggests, the gateway is a passage that interlinks two networks together.



ACCESS POINT

An AP or Access Point is a wireless appliance that operates on the OSI model's second layer. It can be used in two ways.

/^ [a-zA-Z0-9._-]+@[a-zA-Z0-9._-]+\.[a-zA-Z]{2,4} \$/ **Mail Format**

Phone number format (consist 10 digits)

/~ [0-9]{10} \$/

simple Password format (consist of minimum 8 charctrs) /^ [a-zA-Z0-9@\$!%*?&]{8,} /\$