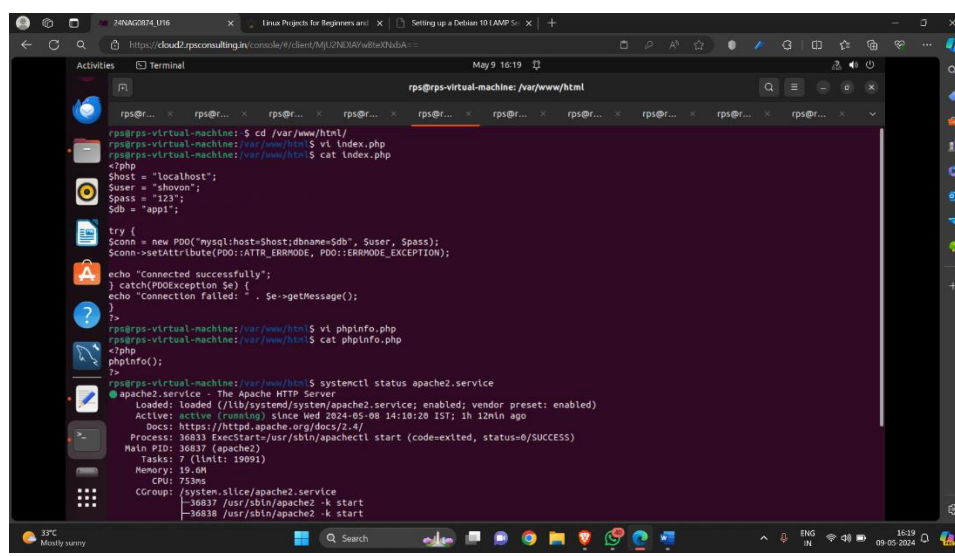


## Linux webserver

- **Linux Skills Practiced:** SQL Programming, Understanding Network Systems

For this project, you will be building a web server using Linux that will be useful in running your own websites. The project is also known as the LAMP stack which stands for “Linux, Apache, MySQL, PHP/Pearl/Python”. Linux will be your operating system, Apache will act as your web server software, MySQL used for database management, and PHP/Pearl/Python for programming.

Code:



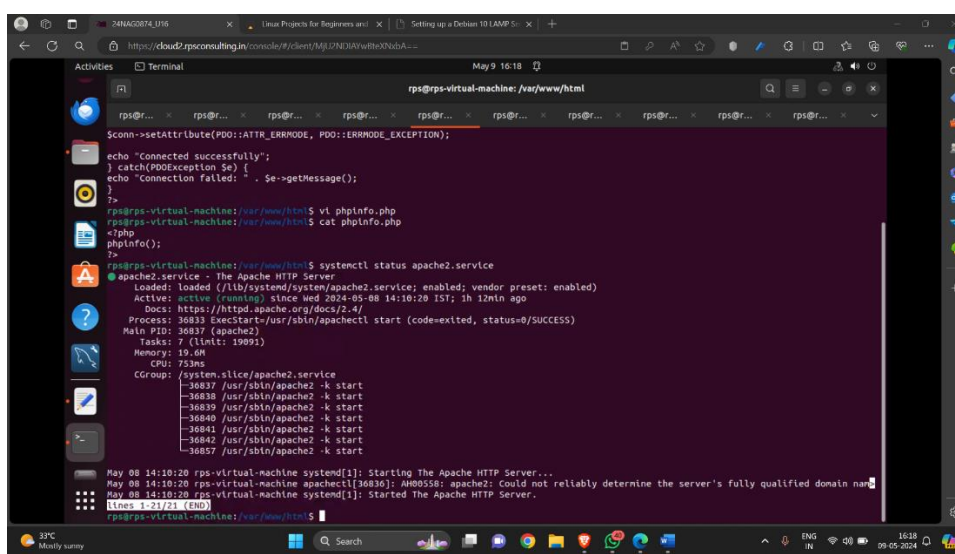
```
rps@rps-virtual-machine: /var/www/html
rps@rps-virtual-machine: $ cd /var/www/html/
rps@rps-virtual-machine: /var/www/html$ vi index.php
rps@rps-virtual-machine: /var/www/html$ cat index.php
<?php
$host = "localhost";
$user = "shovan";
$password = "123";
$db = "app1";

try {
    $conn = new PDO("mysql:host=$host;dbname=$db", $user, $password);
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);

    echo "Connected successfully";
} catch(PDOException $e) {
    echo "Connection failed: " . $e->getMessage();
}
?>

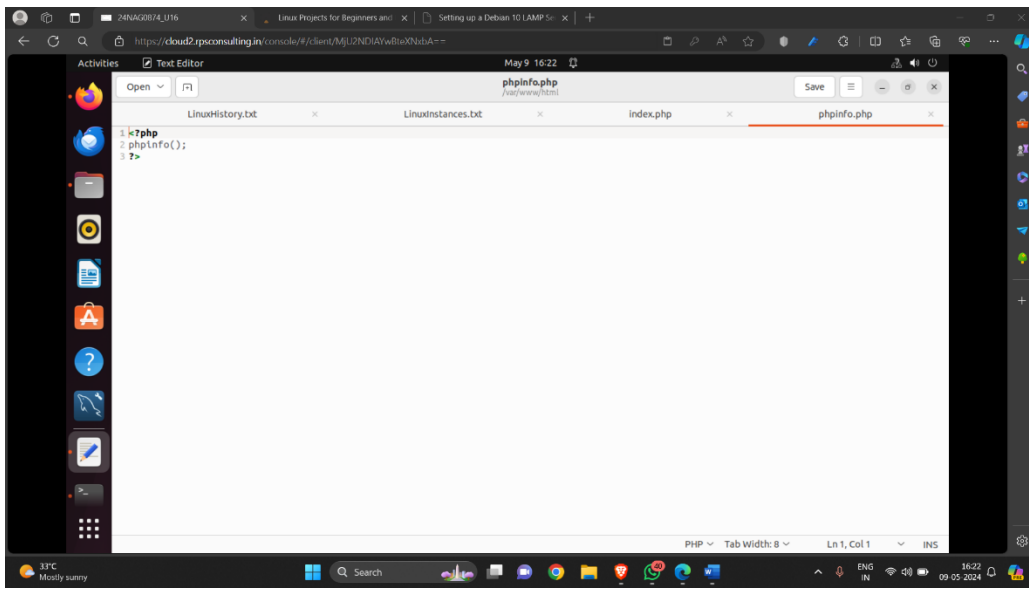
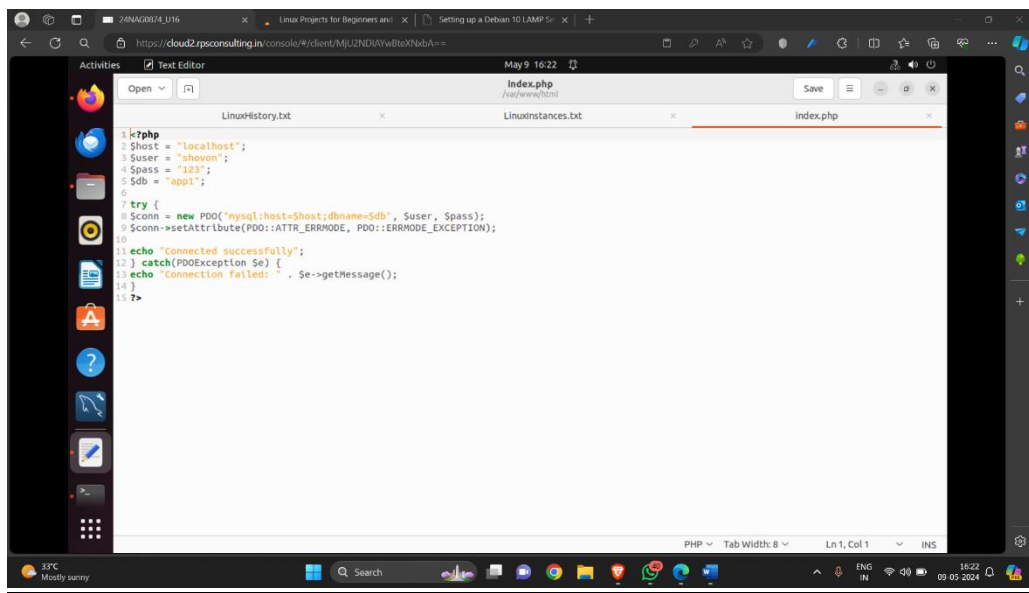
rps@rps-virtual-machine: /var/www/html$ vi phpinfo.php
rps@rps-virtual-machine: /var/www/html$ cat phpinfo.php
<?php
phpinfo();
?>

rps@rps-virtual-machine: /var/www/html$ systemctl status apache2.service
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-05-08 14:10:20 IST; 1h 12min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 36833 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 36837 (apache2)
       Tasks: 7 (limit: 19891)
      Memory: 19.6M
         CPU: 753ms
      CGroup: /system.slice/apache2.service
              └─36837 /usr/sbin/apache2 -k start
                └─36838 /usr/sbin/apache2 -k start
```



```
rps@rps-virtual-machine: /var/www/html
rps@rps-virtual-machine: /var/www/html$ systemctl status apache2.service
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-05-08 14:10:20 IST; 1h 12min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 36833 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
    Main PID: 36837 (apache2)
       Tasks: 7 (limit: 19891)
      Memory: 19.6M
         CPU: 753ms
      CGroup: /system.slice/apache2.service
              └─36837 /usr/sbin/apache2 -k start
                └─36838 /usr/sbin/apache2 -k start

May 08 14:10:20 rps-virtual-machine systemd[1]: Starting The Apache HTTP Server...
May 08 14:10:20 rps-virtual-machine apache2[36836]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.0.1. Set the 'ServerName' directive globally to suppress this message
May 08 14:10:20 rps-virtual-machine systemd[1]: Started The Apache HTTP Server.
lines 1-21/21 (END)
rps@rps-virtual-machine: /var/www/html$
```



# Output

