Fall, 2020

COMP2121 E-Business

Lab 5: PHP 1

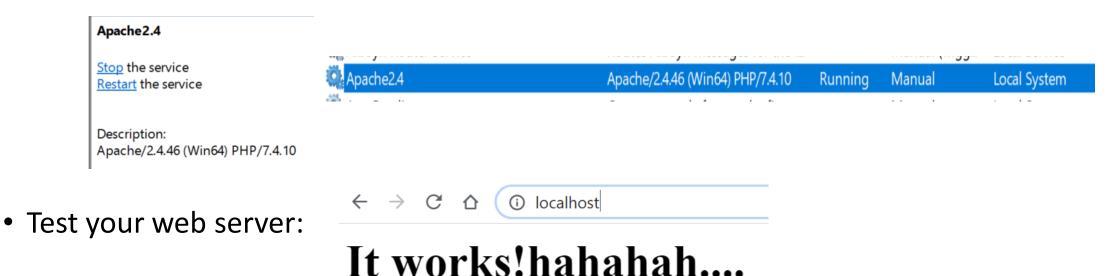
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References

- https://www.w3schools.com/php/
- https://www.php.net/docs.php

Ex1: Test your local apache server (review in Lab 1)

- Please complete the PHP installation in Lab 1.
- For some reasons, if you cannot install the PHP server, please use the COMP PHP server providing that you are in COMP network either physically or virtually.
- Launch "services" (for window users), making sure that your apache server is running.



Ex2: Accessing your personal page from UNIX/Linux (review in Lab1)

All COMP students may set up their personal homepages in their Unix accounts. You have to write your own html file(s) before following the procedures below:

- Create a directory named public_html in /webhome/<Your COMP ID>/.
 Enter mkdir /webhome/<Your COMP ID>/public html.
- Make the public_html readable and executable for the others.
 Enter chmod a+rx /webhome/<Your COMP ID>/public html.
- Copy your html file(s) to the public_html directory.
- Make all your html files readable to the others.
 Enter chmod a+r *.html in the public_html directory.

The URL of your personal homepage is

```
http://www2.comp.polyu.edu.hk/~<your COMP ID>
e.g. http://www2.comp.polyu.edu.hk/~01234567d
```

https://intranet.comp.polyu.edu.hk/TechServices/TechnicalTips/89
You need to login by your COMP account.

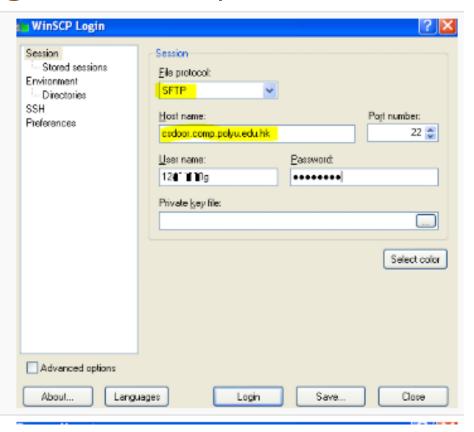
http://www4.comp.polyu.edu.hk/~kf2yuen/

Accessing your personal page directory from LAB PCs

You can access your profile in the Lab Computer with W: Drive.

Accessing your personal page directory with WinSCP

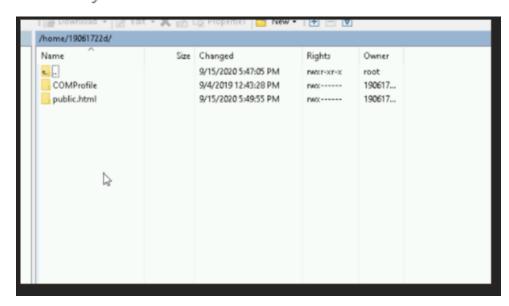
 Download and install WinSCP. Start WinSCP and connect to our UNIX/Linux Host, e.g. csdoor.comp.polyu.edu.hk

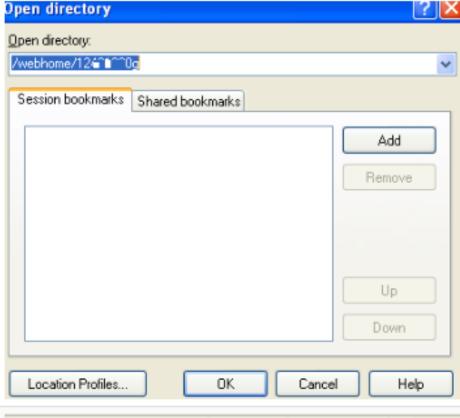


http://winscp.net/eng/index.php

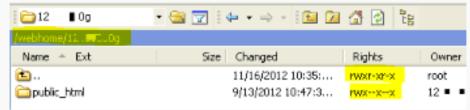
csdoor.comp.polyu.edu.hk

2. Click a to open directory and type /webhome/<your_comp_id> in Open Directory and OK.

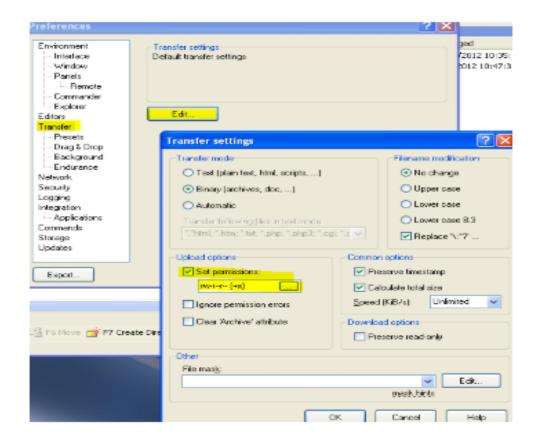




3. You are in your /webhome/<your_comp_id>, you have to make sure the access right of your web directory at least rwx--x--x or rwxr-xr-x



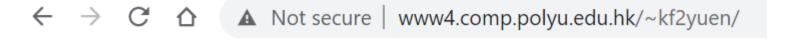
- 4. Setup default rights of your upload files
 - You can do so by click Optoins -> Preferences -> Transfer -> Edit -> Set Permissions in Upload Options



About using PHP Session

By default, COMP web server uses memcache as session handler. It is not necessary to use session_save_path() to define the path to store session. Otherwise, error message will be shown.

Test your webpage in COMP Web server



It works!hahahah....

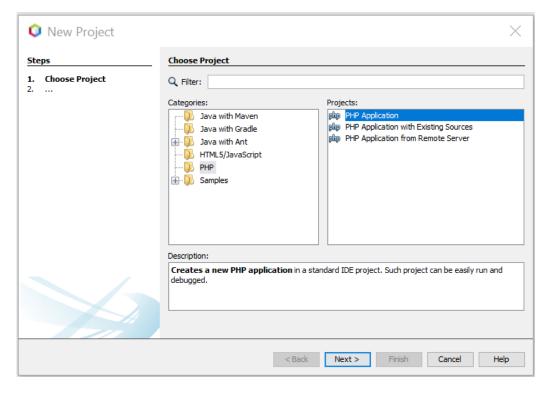
The URL of your personal homepage is

```
http://www2.comp.polyu.edu.hk/~<your COMP ID>
e.g. http://www2.comp.polyu.edu.hk/~01234567d
```

- To view your website in COMP web server, you are required to connect to polyU
 network physically or virtually.
- 2. If you are not in Campus, you can use WinSCP to upload the file to COMP server, and use the web browser in your polyU virtual machine to test the deployment in PolyU Web server.

Ex3: Create a PHP project in Apache Netbeans IDE

• File → New Project → Choose PHP Application



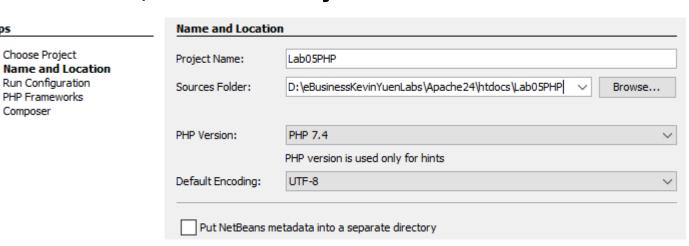
Department of Computing

電子計算學系

Steps

Ex3: Create a PHP project in Apache Netbeans IDE

- Locate the new project under your local Apache's htdocs folder, for example,
 - D:\eBusinessKevinYuenLabs\Apache24\htdocs
- Under the htdocs, set the Project Name as LABO5PHP



Accept the default setting

Steps

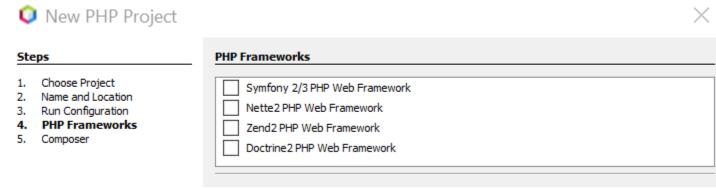
Choose Project Name and Location

Composer

Run Configuration PHP Frameworks

Run Configuration Specify the way this project's files will be deployed. Configuration settings can be added and modified later in the Project Properties dialog box. Run As: Local Web Site (running on local web server) Project URL: http://localhost/Lab05PHP/ Copy files from Sources Folder to another location Copy to Folder: Copy files on project open

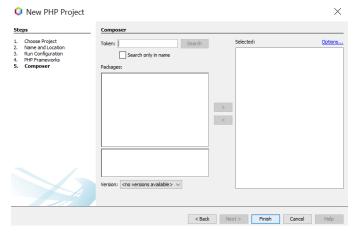
• We do not need these frameworks at this moment. Just click "Next".



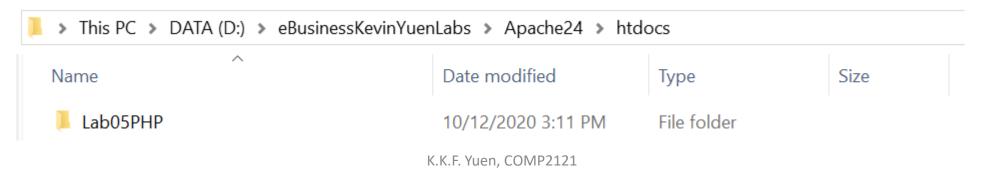
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Ex3: Create a PHP project in Apache Netbeans IDE

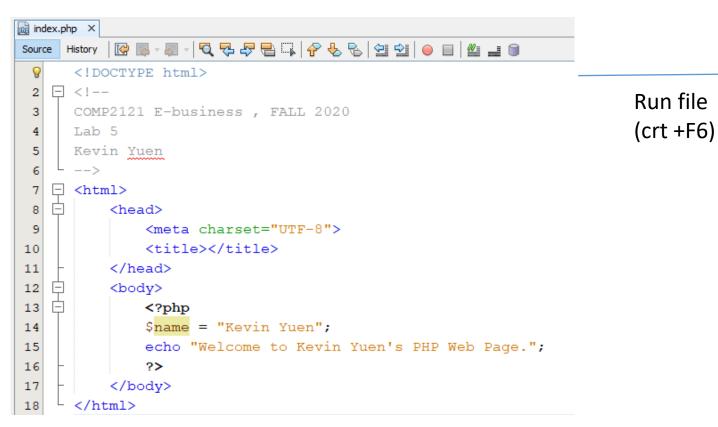
• No Composer is required. Click finish.



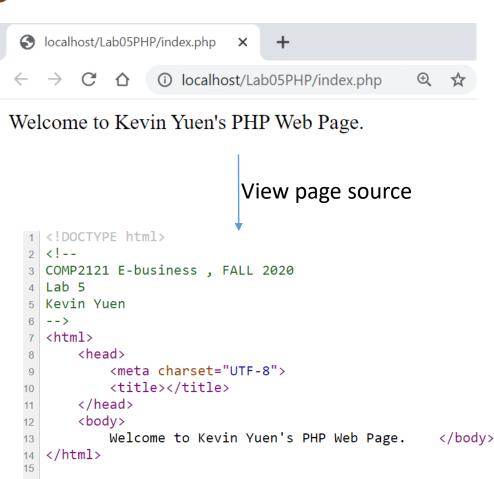
 You will find that a new folder named, <u>Lab05PHP</u>, has been created under *htdocs*.



Launch your first PHP webpage with Netbeans



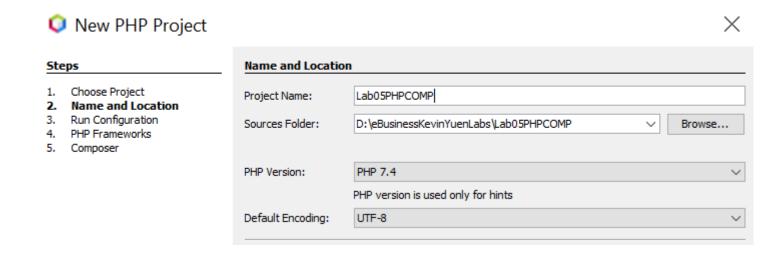
Server-side script

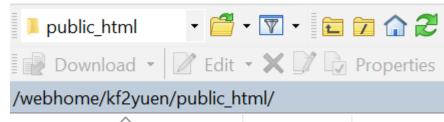


Client-side script in web browser

Ex4: Connect to COMP web server by Netbeans

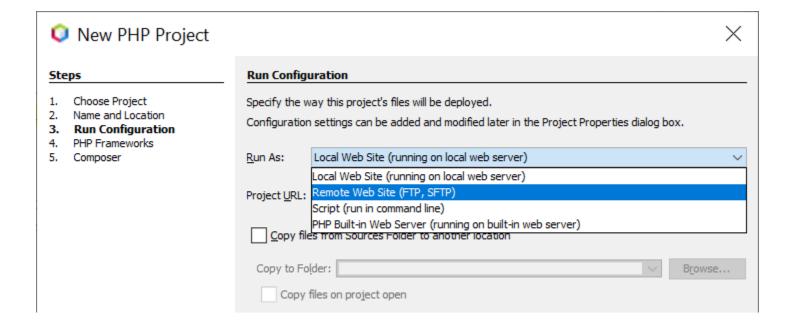
- 1. Create the Project Name as LAB05PHPCOMP.
- 2. If you create the project under htdocs, it will be easier for you to develop locally and deploy remotely.



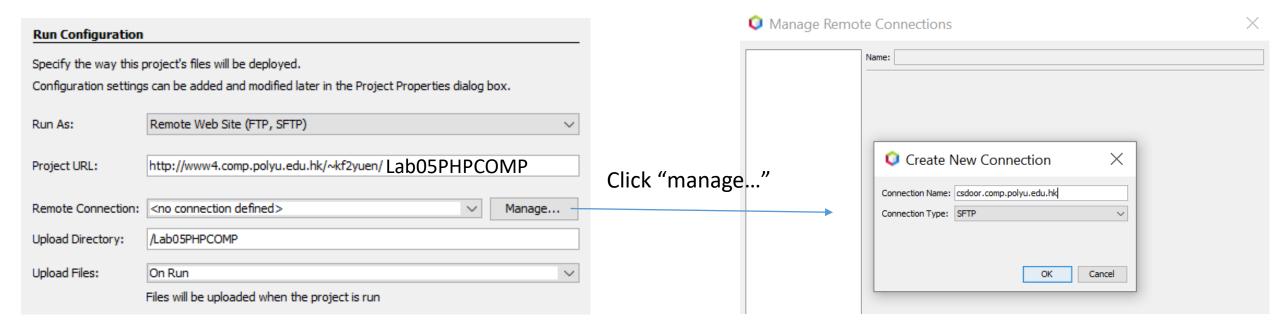


Ex4: Connect to COMP web server by Netbeans

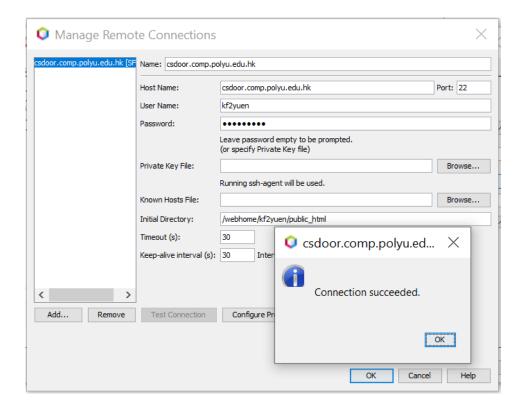
Choose Remote Web Site (FTP, SFTP)



• Setup SFTP.

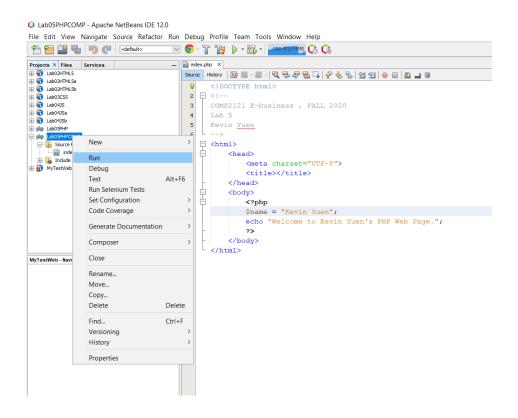


Set the remote connection

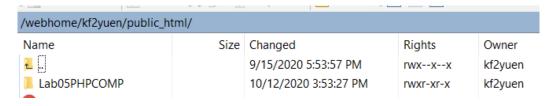


For the rest step, accept the default setting and click "next" until "finish".

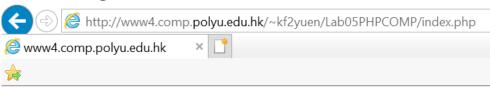
- 1. Copy the index.php from Lab05PHP to replace the one in Lab05PHPCOMP.
- 2. Select the project Lab05PHPCOMP, Right click, and choose Run.
- 3. Ignore the security question and continue



Use WINSCP to have double check

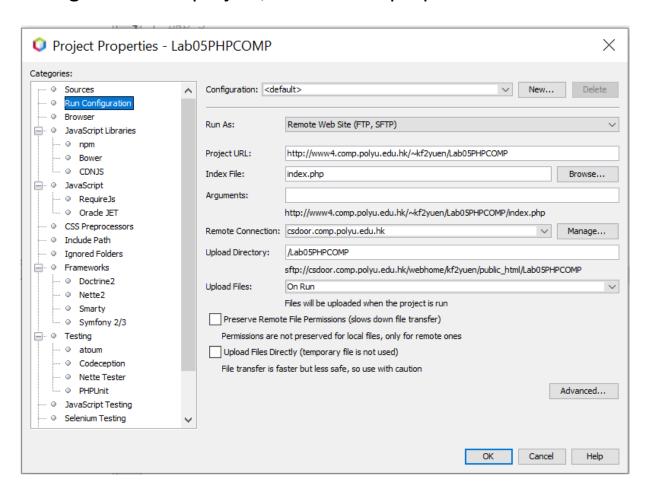


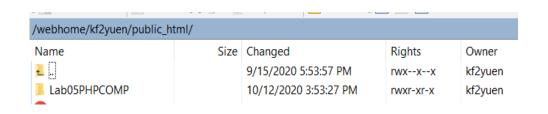
Congratulations!



Welcome to Kevin Yuen's PHP Web Page.

- If you cannot launch the website, configure the project properties.
- Right click the project, and choose properties.





So here, we have two ways to deploy your Files into the web server in polyU COMP.

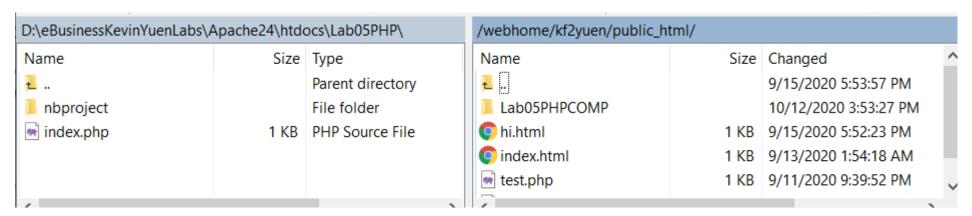
My preference

1. Develop and test the codes using localhost.

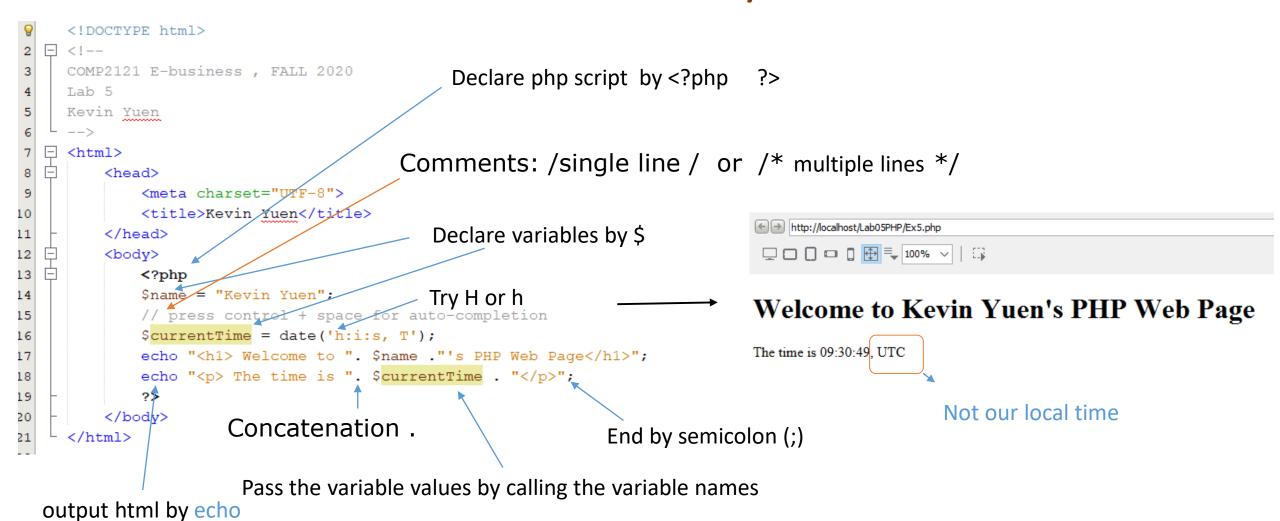


Welcome to Kevin Yuen's PHP Web Page.

2. Deploy, test, redeploy and re-test the finished codes in remote (production) server until no problem is found.

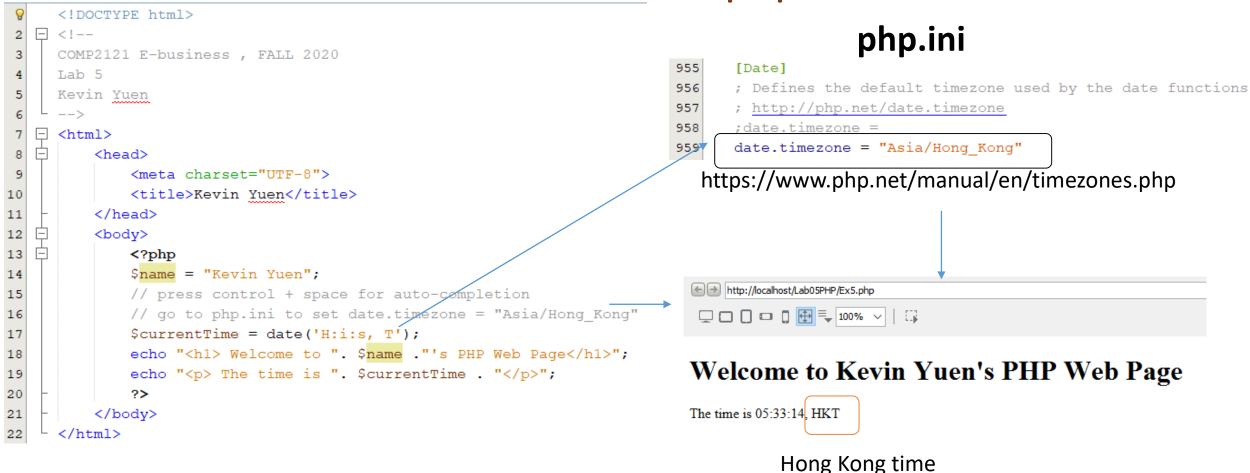


Ex5: Basic PHP Syntax



K.K.F. Yuen, COMP2121

Ex6: set timezone in php server

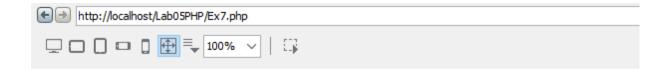




Ex7: If condition

Create a php file named Ex7.php by coping Ex5.php

```
<body>
    <?php
    Sname = "Kevin Yuen";
   // press control + space for auto-completion
   // go to php.ini to set date.timezone = "Asia/Hong Kong"
   $currentTime = date('H:i:s, T');
   echo "<h1>Welcome to ". $name ."'s PHP Web Page</h1>";
   echo " Our time is ". $currentTime . "";
    $hour = date("H");
    $message = "";
   if ($hour >= 5 && $hour < 12) {
       $message = "Good Morning";
    } elseif($hour >= 12 && $hour < 18)
       $message = "Good afternoon";
    } elseif($hour >= 18 && $hour < 21)
       $message = "Good Evening";
    } else {
        $message = "Good Night";
    };
   echo "". $message . "";
</body>
```



Welcome to Kevin Yuen's PHP Web Page

Our time is 18:19:02, HKT

Good Evening

```
<h2>Some PHP Operators</h2>
<?php
$a = 3;
$b = 4;
$c = true;
$d = false;
echo $a + $b ."<br>";
echo var dump($a != $b) ."<br>";
echo "true: " . $c . " <br>";
echo "false:" . $d; >
echo "<br>";
echo "false: " . strval(false);
                        Cast to string
It looks that PHP cannot print Boolean value directly.
so we create a function to handle it. 
<?php
function printBool($bo)
    $result = "";
    if($bo){
                                 Create function
        $result = "true";
    } else {
        $result = "false";
    return $result;
                              Call function
echo "printBool(\$c): " . printBool(\$c) ."<br>";
echo "printBool(\$d):" . printBool($d) ."<br>";
                        Ternary operator
// ternary operator
echo "(\$a > \$b): ";
echo ($a > $b) ? "true" : "false";
echo "<br > However, this does not work. ";
echo "(\$a > \$b): " . ($a > $b) ? "true": "false";
?>
```

Ex8: Some PHP Operators

Create a php file named Ex8.php by copying Ex7.php

Some PHP Operators

7 bool(true) true: 1 false: false:

It looks that PHP cannot print Boolean value directly, so we create a function to handle it.

```
printBool($c): true

printBool($d):false

($a > $b): false

However, this does not work. true
```

Q&A Thank you