

Installation

1.Install xampp

<https://www.apachefriends.org/download.html>

← → ↻

apachefriends.org/download.html

PGR

localhost / 127.0.0.1...

Account Panel » Lo...

My Drive - Google...

WhatsApp

UGR

NAGAD || REPORT P...

Home - Microsoft 3...

Download

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy. Installers created using [InstallBuilder](#).

XAMPP for Windows 8.0.30, 8.1.25 & 8.2.12

Version	Checksum	Size
8.0.30 / PHP 8.0.30	What's Included? md5 sha1	Download (64 bit) 144 Mb
8.1.25 / PHP 8.1.25	What's Included? md5 sha1	Download (64 bit) 148 Mb
8.2.12 / PHP 8.2.12	What's Included? md5 sha1	Download (64 bit) 149 Mb

[Requirements](#) [More Downloads »](#)

Document

There is no re
for XAMPP. W
documentation
Have a burnin
answered here
[Stack Overflo](#)

- Linux FAQs
- Windows F
- OS X FAQs

2.for debug php

<https://xdebug.org/download>

Latest Release

Xdebug 3.4.0beta1

Release date: 2024-10-04

- Linux, macOS:

source
- Windows binaries:

PHP 8.0 VS16 (64 bit)

PHP 8.0 VS16 TS (64 bit)

PHP 8.1 VS16 (64 bit)

PHP 8.1 VS16 TS (64 bit)

PHP 8.2 VS16 (64 bit)

PHP 8.2 VS16 TS (64 bit)

PHP 8.3 VS16 (64 bit)

PHP 8.3 VS16 TS (64 bit)

PHP 8.4 VC6 (64 bit)

PHP 8.4 VC6 TS (64 bit)

How to know which version of xdebug should I install

a. Go to this link

<http://localhost/dashboard/phpinfo.php>

b. click ctrl+u and copy all code

d.download 'xdebug' from this link

- **Server API:** Apache 2.0 Handler
- **Windows:** yes
- **Compiler:** MS VC15
- **Architecture:** x64
- **Zend Server:** no
- **PHP Version:** 7.2.34
- **Zend API nr:** 320170718
- **PHP API nr:** 20170718
- **Debug Build:** no
- **Thread Safe Build:** yes
- **OPcache Loaded:** no
- **Configuration File Path:** C:\WINDOWS
- **Configuration File:** C:\xampp\php\php.ini
- **Extensions directory:** C:\xampp\php\ext

Instructions

1. Download [php_xdebug-3.1.6-7.2-vc15-x86_64.dll](#)
2. Move the downloaded file to C:\xampp\php\ext, and rename it to `php_xdebug.dll`
3. Update `C:\xampp\php\php.ini` and add the line:
`zend_extension = xdebug`
4. Restart the Apache Webserver

3.composer install

<https://getcomposer.org/download/>

Download Composer Latest: v2.8.2

Windows Installer

The installer - which requires that you have PHP already installed - will download Composer for you and set up your PATH environment variable so you can simply call `composer` from any directory.


Download and run [Composer-Setup.exe](#) - it will install the latest composer version whenever it is executed.

4.Enable X debugger

Copy downloaded debugger

Downloads






















SortView

Name	Date modified	Type	Size
Today			
 php_xdebug-3.4.0beta1-8.0-vs16-nts-x86...	11/7/2024 9:23 PM	Application extens...	295 KB

Paste into C:\xampp\php\ext

This PC > Local Disk (C:) > xampp > php > ext

SortView

Name	Date modified	Type	Size
 php_pdo_firebird.dll	10/1/2020 4:55 PM	Application extens...	28 KB
 php_pdo_mysql.dll	10/1/2020 4:55 PM	Application extens...	30 KB
 php_pdo_oci.dll	10/1/2020 4:55 PM	Application extens...	33 KB
 php_pdo_odbc.dll	10/1/2020 4:55 PM	Application extens...	27 KB
 php_pdo_pgsql.dll	10/1/2020 4:55 PM	Application extens...	39 KB
 php_pdo_sqlite.dll	10/1/2020 4:55 PM	Application extens...	863 KB
 php_pgsql.dll	10/1/2020 4:55 PM	Application extens...	99 KB
 php_phpdbg_webhelper.dll	10/1/2020 4:54 PM	Application extens...	17 KB
 php_shmop.dll	10/1/2020 4:55 PM	Application extens...	17 KB
 php_snmp.dll	10/1/2020 4:55 PM	Application extens...	412 KB
 php_soap.dll	10/1/2020 4:55 PM	Application extens...	246 KB
 php_sockets.dll	10/1/2020 4:55 PM	Application extens...	72 KB
 php_sodium.dll	10/1/2020 4:55 PM	Application extens...	72 KB
 php_sqlite3.dll	10/1/2020 4:55 PM	Application extens...	796 KB
 php_sysvshm.dll	10/1/2020 4:55 PM	Application extens...	17 KB
 php_tidy.dll	10/1/2020 4:55 PM	Application extens...	558 KB
 php_xdebug.dll	12/2/2019 7:15 PM	Application extens...	265 KB
 php_xmlrpc.dll	10/1/2020 4:55 PM	Application extens...	82 KB
 php_xsl.dll	10/1/2020 4:55 PM	Application extens...	282 KB
 php_zend_test.dll	10/1/2020 4:55 PM	Application extens...	17 KB
 php_xdebug-3.4.0beta1-8.0-vs16-nts-x86...	11/7/2024 9:23 PM	Application extens...	295 KB

Rename

 php_xdebug.dll	12/2/2019 7:15 PM	Application extens...	265 KB
--	-------------------	-----------------------	--------

Open php.ini

↑ ↻ 🖨 > This PC > Local Disk (C:) > xampp > php >

✂ 📁 📄 📄 📄 🗑 ⬆ Sort ▾ ≡ View ▾ ⋮

Name	Date modified	Type	Size
pci	1/1/2024 10:02 AM	File	1 KB
pci.bat	1/1/2024 10:02 AM	Windows Batch File	1 KB
pci.css	1/27/2016 6:02 PM	CSS Source File	2 KB
pci.conf	1/1/2024 10:02 AM	File	18 KB
pci.conf.bat	1/1/2024 10:02 AM	Windows Batch File	1 KB
pear.bat	1/1/2024 10:02 AM	Windows Batch File	5 KB
peardev.bat	1/1/2024 10:02 AM	Windows Batch File	5 KB
pecl.bat	1/1/2024 10:02 AM	Windows Batch File	5 KB
phar.phar.bat	10/1/2020 5:05 PM	Windows Batch File	1 KB
pharcommand.phar	10/1/2020 5:05 PM	PHAR File	52 KB
php.exe	10/1/2020 4:54 PM	Application	124 KB
php.gif	10/1/2020 4:55 PM	GIF File	3 KB
php.ini	10/24/2024 12:38 PM	Configuration setti...	73 KB

Copy this code

- Auto Rename Tag

XDebug Setup

- Paste XDebug dll file inside XAMPP/php/ext
- Open php.ini and add properties
 - xdebug.mode=debug
 - xdebug.start_with_request=yes
 - xdebug.client_port=9003
 - xdebug.client_host = localhost
 - zend_extension="C:\xampp\php\ext\xdebug.dll"
- Again check PHP version in terminal php -v

#php

xdebug.mode=debug

xdebug.start_with_request=yes

xdebug.client_port=9003

xdebug.client_host = localhost

zend_extension="C:\xampp\php\ext\php_xdebug.dll"

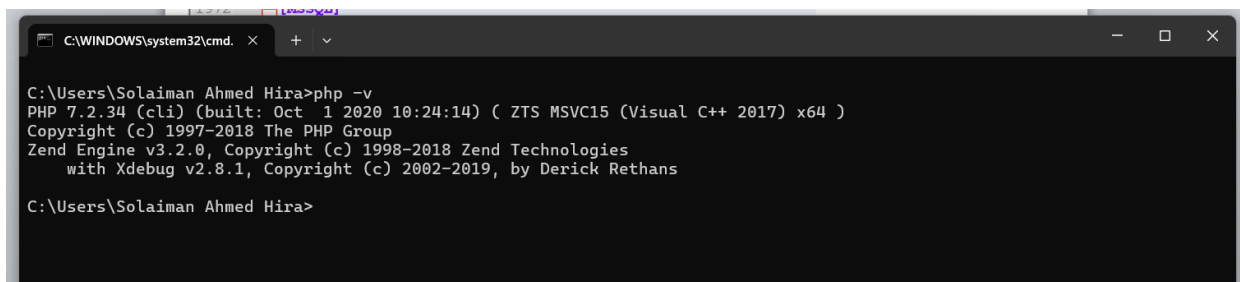
Paste into php.ini

```

1972 [MSSQL]
1973 mssql.allow_persistent=On
1974 mssql.max_persistent=-1
1975 mssql.max_links=-1
1976 mssql.min_error_severity=10
1977 mssql.min_message_severity=10
1978 mssql.compatability_mode=Off
1979 mssql.secure_connection=Off
1980
1981 xdebug.mode=debug
1982 xdebug.start_with_request=yes
1983 xdebug.client_port=9003
1984 xdebug.client_host = localhost
1985 zend_extension="C:\xampp\php\ext\php_xdebug.dll"
1986

```

After restart xampp in php -v (we will see with Xdebug v2.8.1)



```

C:\WINDOWS\system32\cmd. x + v
C:\Users\Solaiman Ahmed Hira>php -v
PHP 7.2.34 (cli) (built: Oct 1 2020 10:24:14) ( ZTS MSVC15 (Visual C++ 2017) x64 )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies
    with Xdebug v2.8.1, Copyright (c) 2002-2019, by Derick Rethans


C:\Users\Solaiman Ahmed Hira>

```

VS CODE Extension

VS Code Extensions for PHP

- PHP Debug
- PHP IntelliSense
- PHP Server
- MySQL by Weijian Chen
- PHP Intelephense
- Code Spell Checker
- Auto Rename Tag




PHP IntelliSense
4.4M ★ 3.5

Advanced Autocompletion and Refactoring supp...

Damjan Cvetko

Install

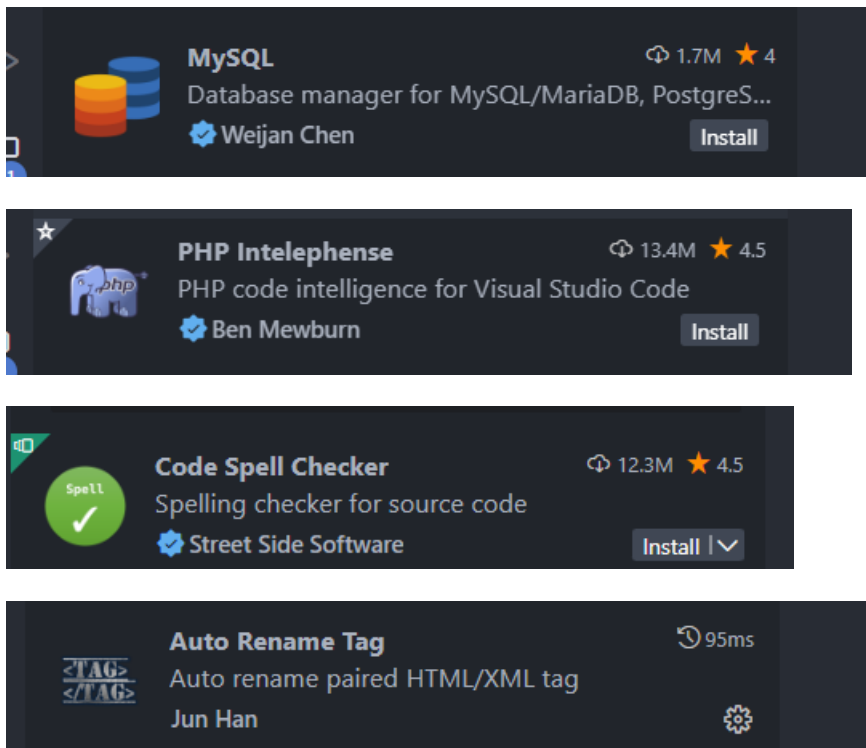


PHP Server
2.2M ★ 4

Serve your Project with PHP

brapifra

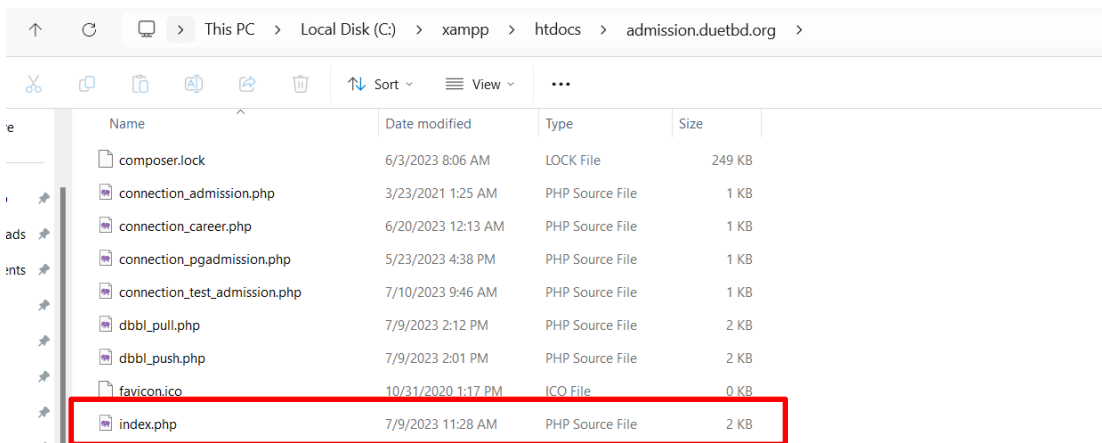
Install

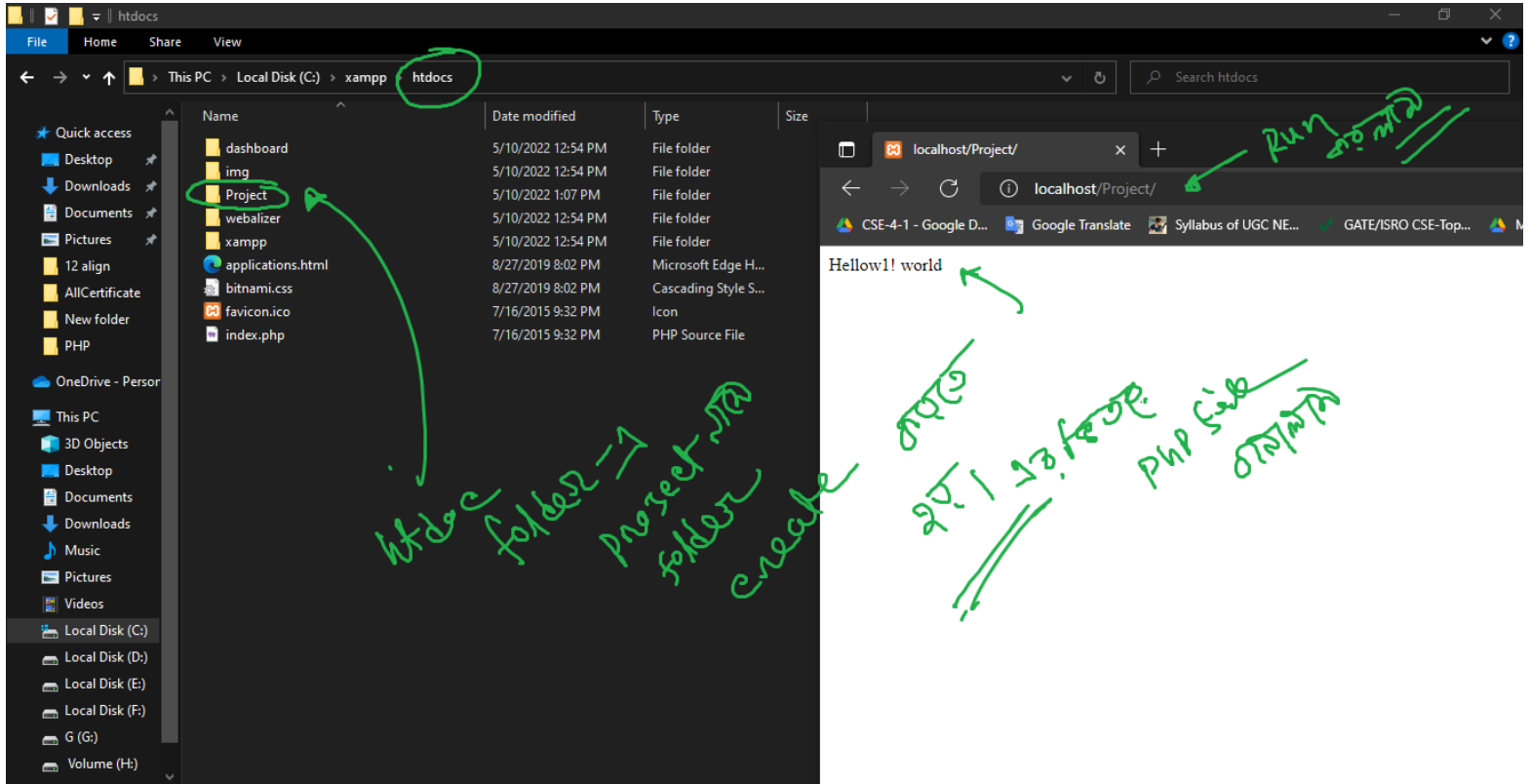
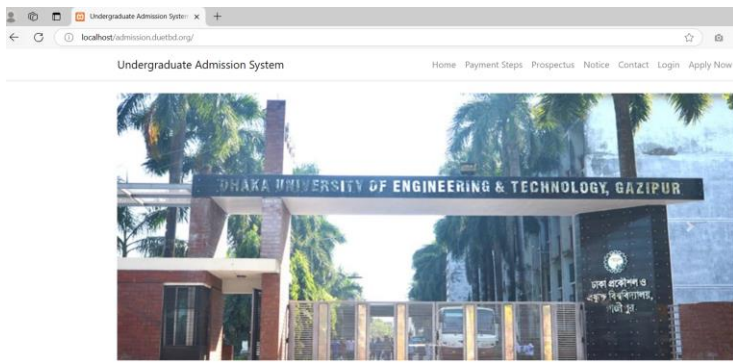


Run Code

OLD PROCESS

Go to xampp->htdocs and create project folder and write code into index.php





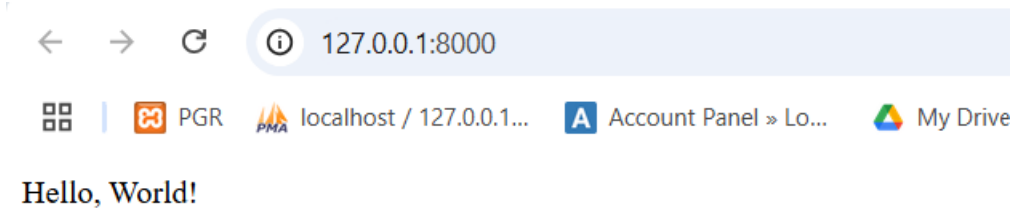
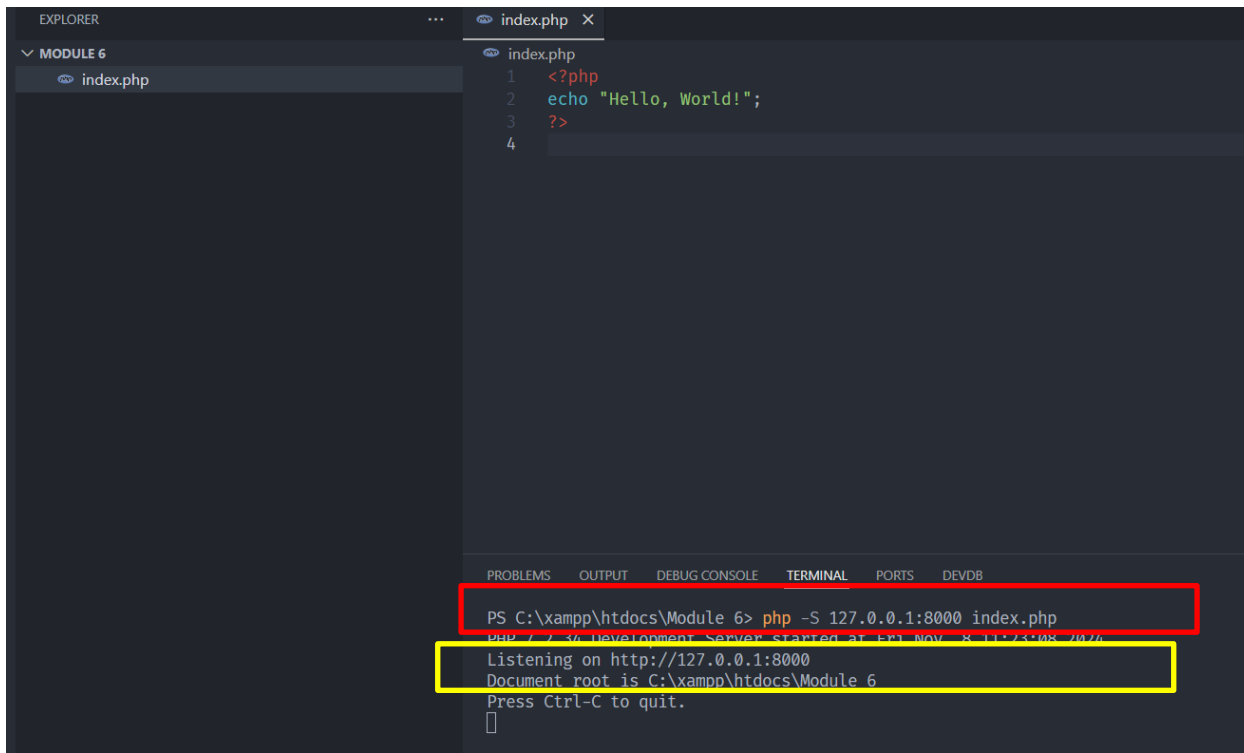
New Process RUN

নিচের কমান্ড টাইপ করব Terminal এ:

```
php -S 127.0.0.1:8000 index.php
```

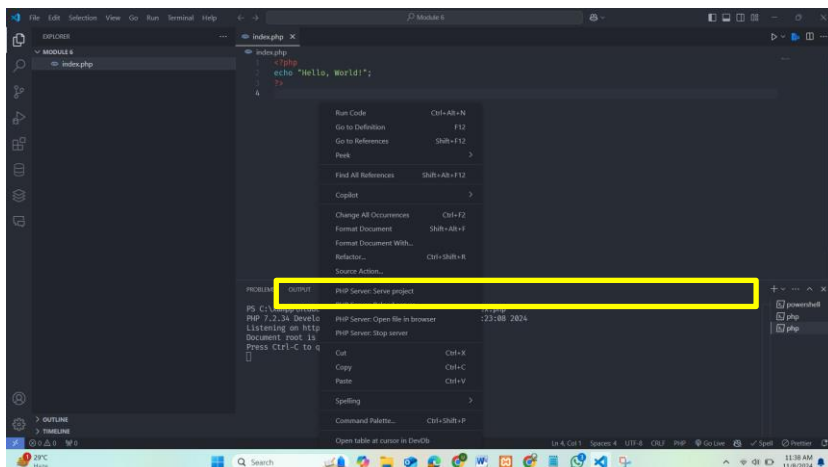
এরপর আউটপুটের লিংক এ ক্লিক করলে আউটপুট পাব:

<http://127.0.0.1:8000>



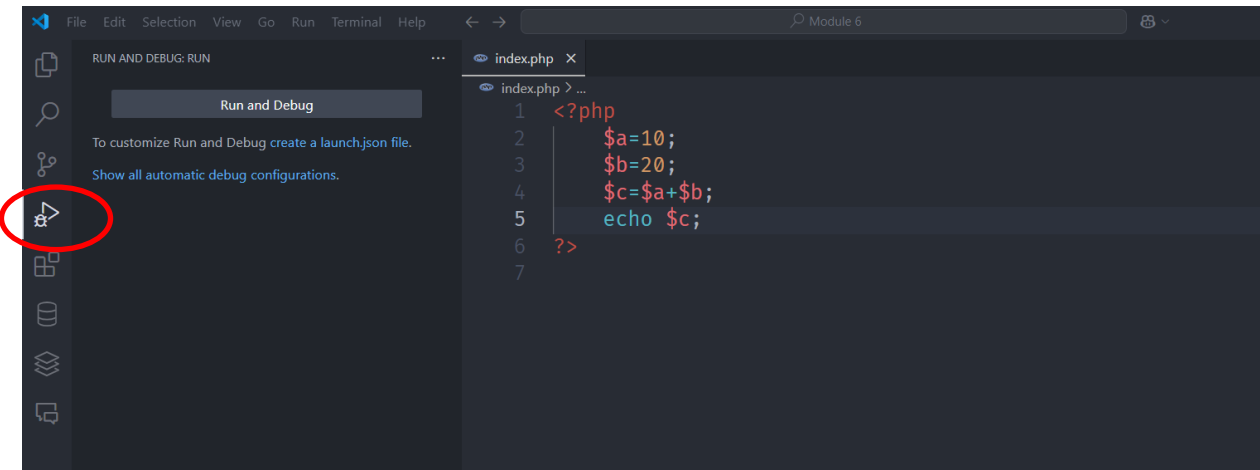
Another way:

যেহেতু আমরা php server install করেছি তাই এটা দিয়েও install করা যাবে। (Right click + Php Server: Server Project)

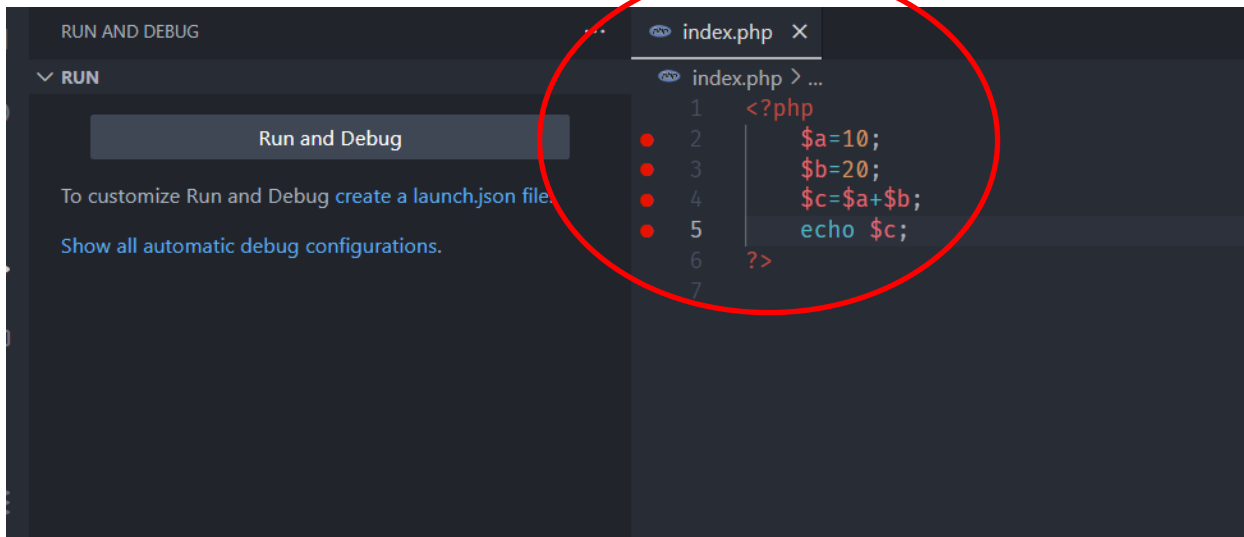


Run & Debug

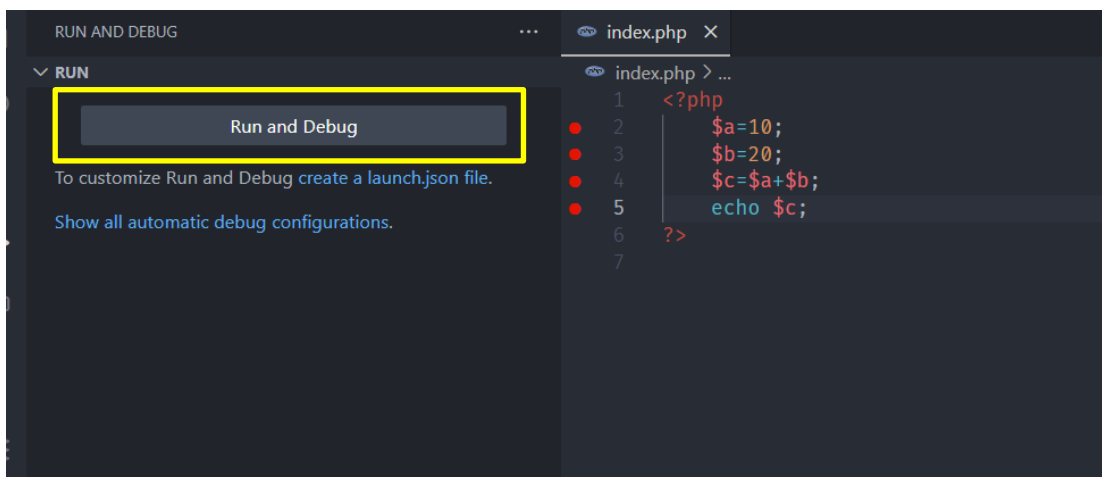
Run & Debug এ ক্লিক করব।



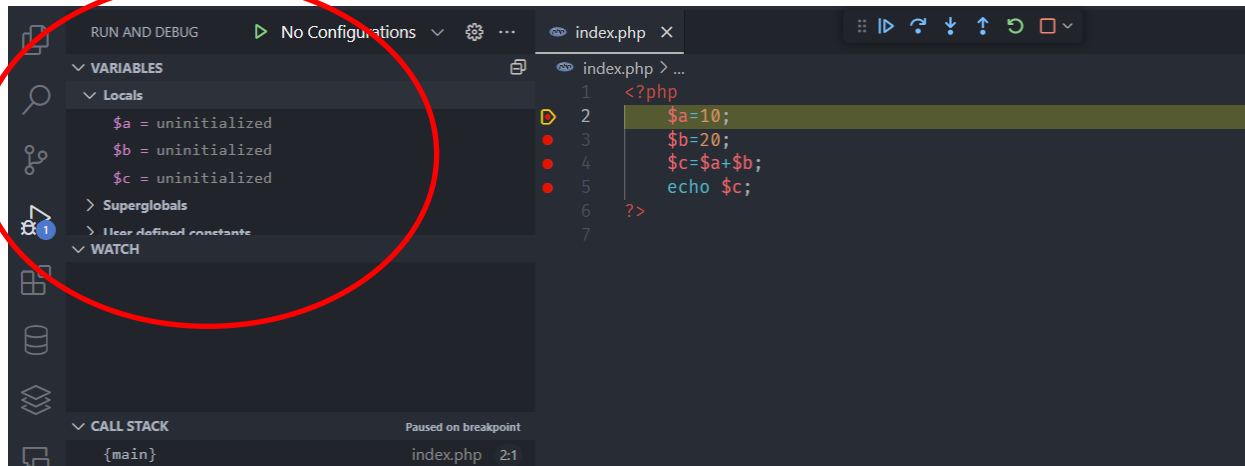
Give debug point



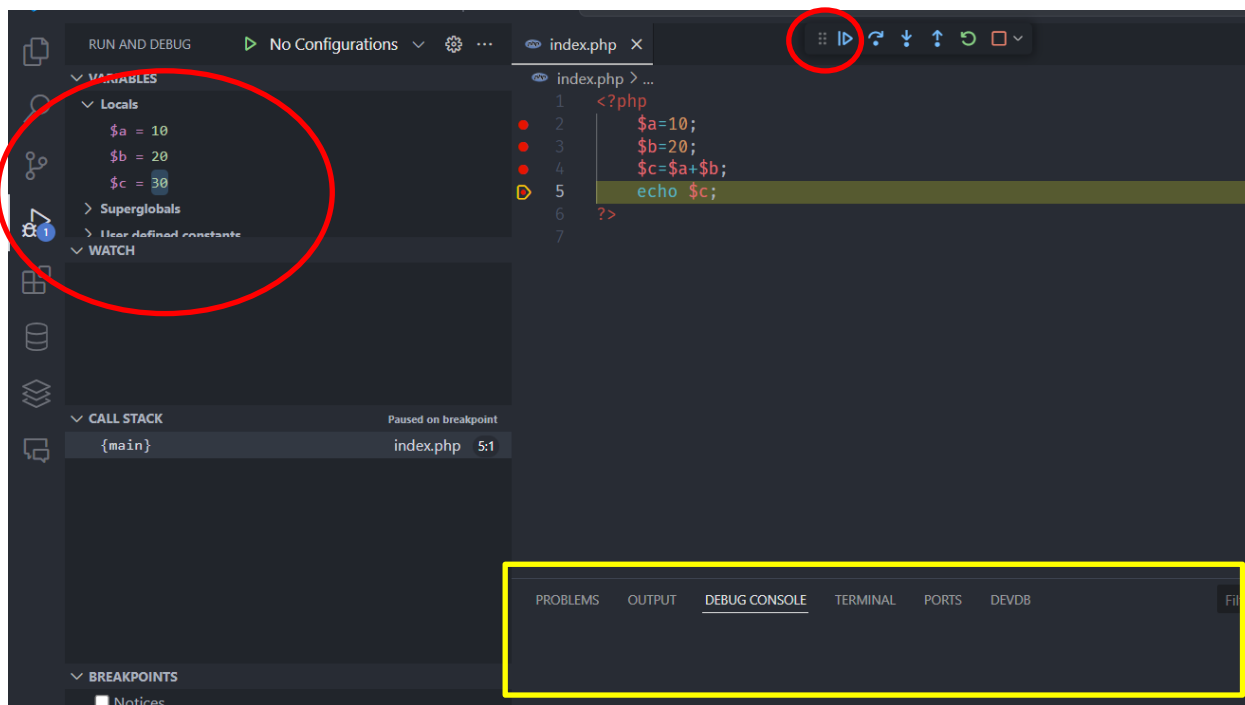
Press Run and Debug button



Showing debug options



Press continue and show step by step output



<input type="radio"/> Variable Naming Conventions
<input type="radio"/> Variable Types
<input type="radio"/> Variable Scope
<input type="radio"/> PHP Constant
<input type="radio"/> PHP Comments
<input type="radio"/> PHP printf()
<input type="radio"/> PHP sprintf()

Coding Language:

Variable:

```
<?php
// Integer
$age = 25;
echo "Age: $age<br>"; // Output: Age: 25

// Float
$price = 19.99;
echo "Price: $price<br>"; // Output: Price: 19.99

// String
$name = "John Doe";
echo "Name: $name<br>"; // Output: Name: John Doe

// Boolean
$is_logged_in = true;
echo "Is logged in: " . ($is_logged_in ? 'true' : 'false') . "<br>"; // Output: Is logged in: true

// Array
$colors = array("red", "green", "blue");
echo "Colors: " . implode(", ", $colors) . "<br>"; // Output: Colors: red, green, blue

// Associative Array
$person = array("name" => "Alice", "age" => 30);
echo "Person: Name - " . $person['name'] . ", Age - " . $person['age'] . "<br>"; // Output: Person: Name -
Alice, Age - 30

// NULL
$variable = NULL;
echo "Variable is " . (is_null($variable) ? 'NULL' : 'not NULL') . "<br>"; // Output: Variable is NULL

?>
```

variable scopes:

Global Variable:

global variable, function এর ভিতর থেকে access করা যাবে না। global variable access করতে হলে global লিখতে হবে ফাংশন এর মধ্যে। অথবা `$GLOBALS['variable name']` লিখে access করতে হবে।

```
<?php

$global_variable="hi";//global variable
$age=20;//global variable

function myFunction(){
    global $global_variable;
    echo "$global_variable<br>";
}
function myFunction1(){
    echo $GLOBALS['age'];
}

myFunction();
myFunction1();

?>
```

Local Variable :

Local variable শুধুমাত্র ফাংশন এর মধ্য থেকে access করা যাবে।বাহির থেকে access করা যাবে না।

```
<?php

function displayLocalVar() {
    $localVar = "I'm a local variable";
    echo $localVar; // Output: I'm a local variable
}

displayLocalVar();
echo $localVar; // Undefined variable error
```

?>

Constants(Global Scope)

Constant access করা যাবে যে কোন জায়গা থেকে কারন এটার scope global ।

Unlike variables, constants do not use a \$ symbol before their names.(এখানে \$ symbol use করতে হয় না।)

```
<?php

define('SITE_NAME','https://www.utsab.com');
const PI=3.1416;

echo SITE_NAME;
echo "<br>";
echo PI;
echo"<br>";
function myFunction(){
    echo SITE_NAME;//constant is global variable access
                      //from anywhere
}
myFunction();

?>
```

Comment

- Single-line: `//` or `#` for brief notes.
- Multi-line: `/* ... */` for longer comments.
- PHPDoc: `/** ... */` for documentation with special tags (`@param`, `@return`, etc.).

Output

printf() : Outputs a formatted string directly. (সরাসরি আউটপুট দিবে।সি/সি++ এর মত।)

```
<?php
    $age=20;
    $name="utsab";
    printf("Age is %d name is %s",$age,$name);
?>
```

← → ↻ ⓘ localhost:3000/index.php

☐ | PGR PMA localhost / 127.0.0.1... A Account Panel » Lo... 🌐

Age is 20 name is utsab

sprintf() : Returns a formatted string without outputting it. (এটা আউটপুট string return করবে।এরপর echo করতে হবে।)

```
<?php
    $age=20;
    $name="utsab";
    $output_string=sprintf("Age is %d name is %s",$age,$name);
    echo $output_string;
?>
```

← → ↻ ⓘ localhost:3000/index.php

☐ | PGR PMA localhost / 127.0.0.1... A Account Panel » Lo... 🌐

Age is 20 name is utsab

Branching Condition:

if...elseif...else Statement

```
<?php
    $number=10;
    if($number>=80){
        echo "A+";
    }
    else if($number>=70){
        echo "A";
    }
    elseif($number>=60){
        echo "A-";
    }else{
        echo "Fail";
    }
?>
```

Ternary operator

The ternary operator (?:) is a shorthand way to write simple if . . . else statements.

```
<?php
    $age=20;
    $message=($age>=20)?'Adult':'Not Adult';
    echo $message;
?>
```

← → ↻ ⓘ localhost:3000/index.php



PGR



localhost / 127.0.0.1...



Account Pane

Adult

Null Coalescing Operator (??)

The null coalescing operator (??) is used to check if a variable is set and not `null`. If the variable exists, it returns its value; otherwise, it returns a default value.

(NULL হলে default value(?? এর পরেরটা default value) print করে অন্যথায় variable এর value print করবে।)

```
<?php
$city=null;
$output_city=$city??'No City';
echo "$output_city <br>";

$name='utsab';
$output_name=$name??'No City';
echo "$output_name <br>";
?>
```



localhost:3000/index.php



PGR



localhost / 127.0.0.1...



Account Panel »

No City
utsab

switch

```
<?php
$day = "Wednesday";

switch ($day) {
    case "Monday":
        echo "Start of the work week!";
        break;
    case "Wednesday":
        echo "Midweek day!";
        break;
    case "Friday":
        echo "Almost the weekend!";
        break;
    case "Saturday":
    case "Sunday":
        echo "It's the weekend!";
        break;
    default:
        echo "Not a valid day.";
        break;
}
// Output: Midweek day!
?>
```

← → ↻ ⓘ localhost:3000/index.php



PGR



localhost / 127.0.0.1...

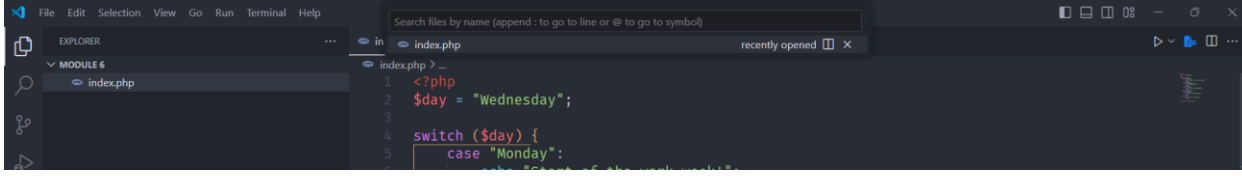


Account Panel »

Midweek day!

Keyboard Shortcut

Ctrl+p এটা দিয়ে ফাইল খুজা সম্পূর্ণ project থেকে।



Shift+alt+up arrow এটা দিয়ে select কৃত লাইন উপরে/নীচের দিকে পেস্ট হবে।



Alt+up/down এটা দিয়ে select কৃত লাইন উপরে/নীচে move করা যাবে।

Ctrl+shift+k কোন লাইনকে ডিলিট করে দিবে।

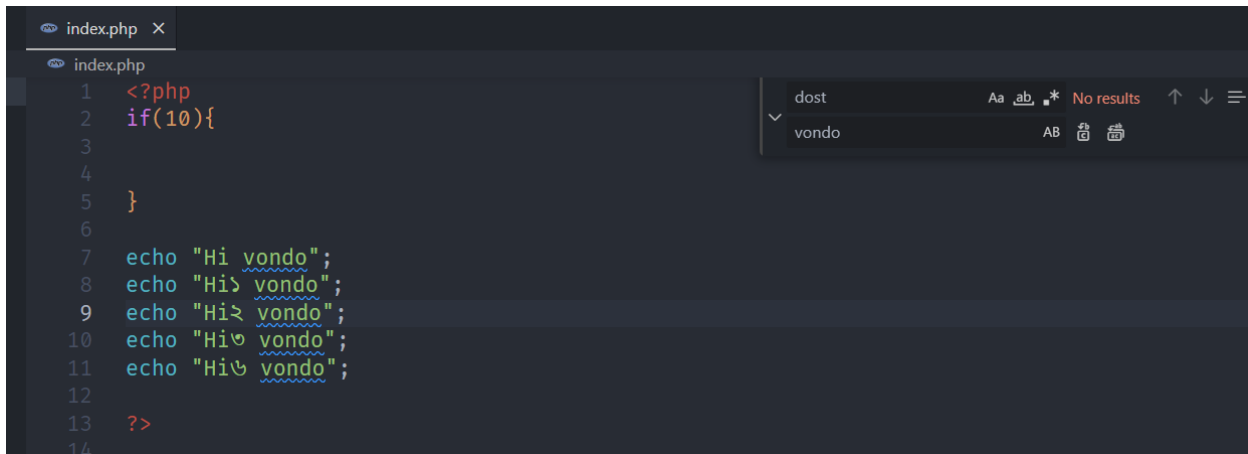
Ctrl+home ফাইল এর শুরুতে চলে যাবে।

Ctrl+end ফাইল এর শেষে চলে যাবে।

Ctrl+/ একটা লাইন কমেন্ট

Shift + alt + a মাল্টিপল লাইন কমেন্ট

Ctrl+f (ফাইন্ড করবে), ctrl+h(রিপ্লেস করবে)



The screenshot shows a code editor with a dark theme. A tab at the top is labeled 'index.php' with a close button. The editor contains the following PHP code:

```
1 <?php
2 if(10){
3
4
5 }
6
7 echo "Hi vondo";
8 echo "Hi\ vondo";
9 echo "Hi¿ vondo";
10 echo "Hi๖ vondo";
11 echo "Hi๖ vondo";
12
13 ?>
14
```

A search bar is open on the right side of the editor. It has a dropdown arrow on the left. The search text is 'vondo'. The results section shows 'vondo' as a match. The search bar also includes a search icon, a close icon, and a menu icon. The text 'No results' is displayed in red.