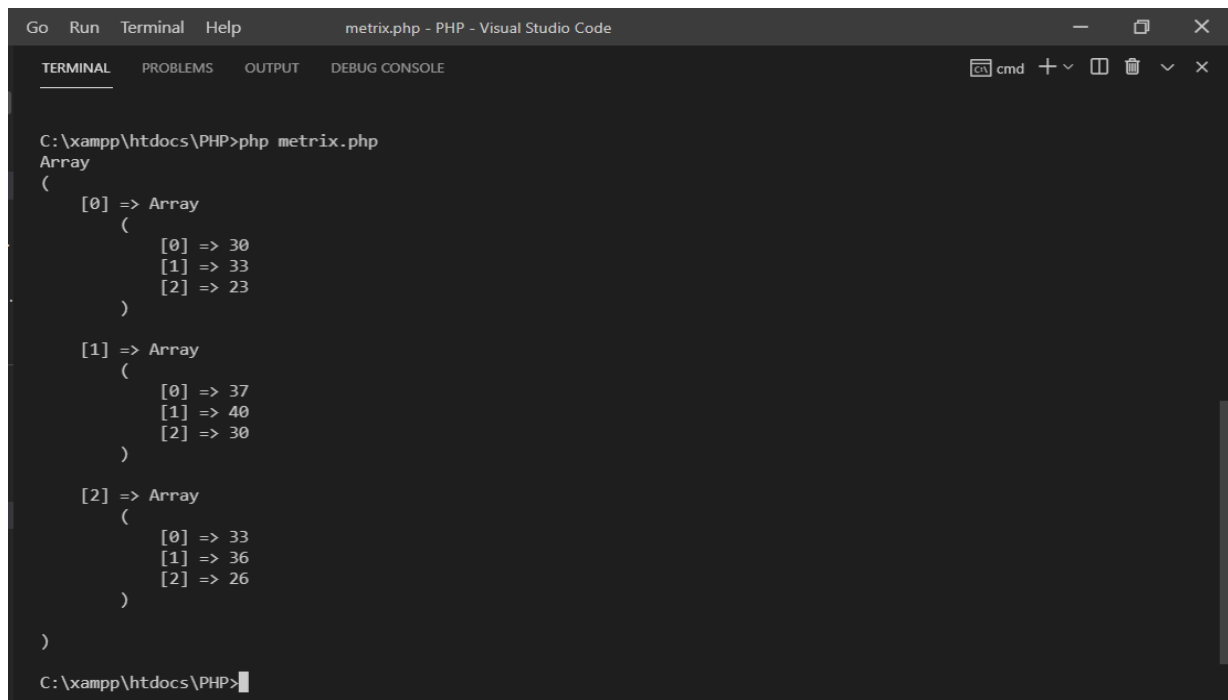


1.20) Write a php program for matrix multiplication.

```
<?php
$a1=array(array(1,2,3),array(3,4,5),array(5,10,4));
$a2=array(array(6,7,8),array(5,9,10),array(7,1,6));

$a4=array();
for($i=0;$i<3;$i++)
{
    for($j=0;$j<3;$j++)
    {
        $a4[$i][$j]=0;
        for($k=0;$k<3;$k++)
        {
            $a4[$i][$j]=$a4[$i][$j]+$a1[$k][$i]+$a2[$j][$k]
;
        }
    }
}

print_r($a4);
?>
```



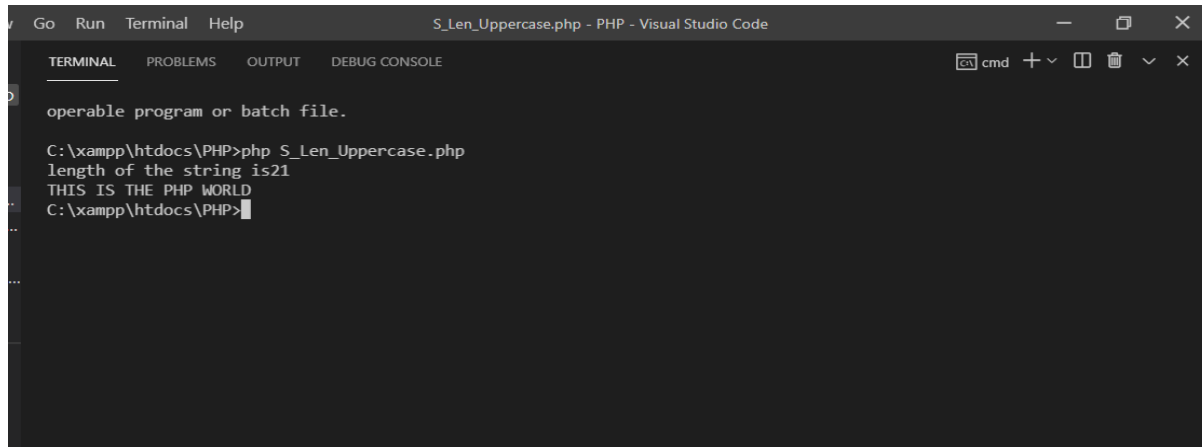
The screenshot shows a Visual Studio Code window with a terminal open. The terminal title is "metrix.php - PHP - Visual Studio Code". The terminal output displays the result of the PHP script, which is a 3x3 matrix. The output is as follows:

```
C:\xampp\htdocs\PHP>php metrix.php
Array
(
    [0] => Array
        (
            [0] => 30
            [1] => 33
            [2] => 23
        )
    [1] => Array
        (
            [0] => 37
            [1] => 40
            [2] => 30
        )
    [2] => Array
        (
            [0] => 33
            [1] => 36
            [2] => 26
        )
)
```

The prompt "C:\xampp\htdocs\PHP>" is visible at the bottom of the terminal.

1.21) Write a php program to check the length of given string and display the string in upper case.

```
<?php
$word="This is the php world";
echo "length of the string is" , strlen($word),"\\n";
echo strtoupper($word);
?>
```



```
Go Run Terminal Help S_Len_Uppercase.php - PHP - Visual Studio Code

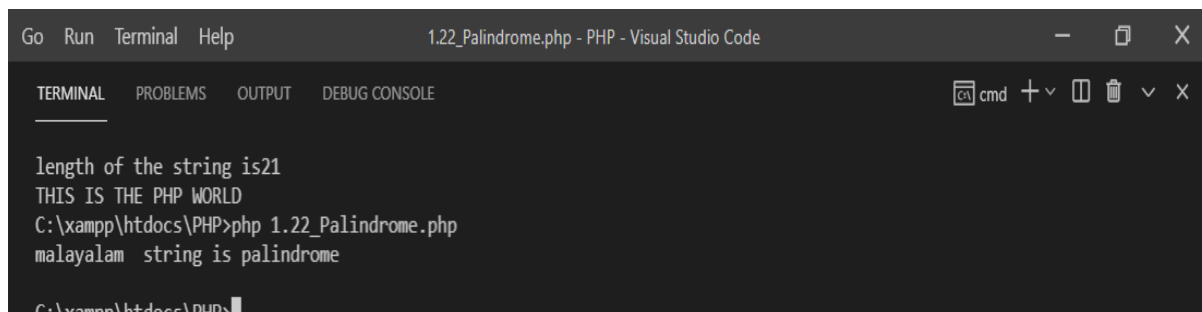
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

operable program or batch file.

C:\xampp\htdocs\PHP>php S_Len_Uppercase.php
length of the string is21
THIS IS THE PHP WORLD
C:\xampp\htdocs\PHP>
```

1.22) Write a php program to find if the string is palindrome or not.

```
<?php
$word="malayalam";
$r=strrev($word);
if($r==$word)
    echo $r," string is palindrome";
else
    echo $r," string is not palindrome";
?>
```



```
Go Run Terminal Help 1.22_Palindrome.php - PHP - Visual Studio Code

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

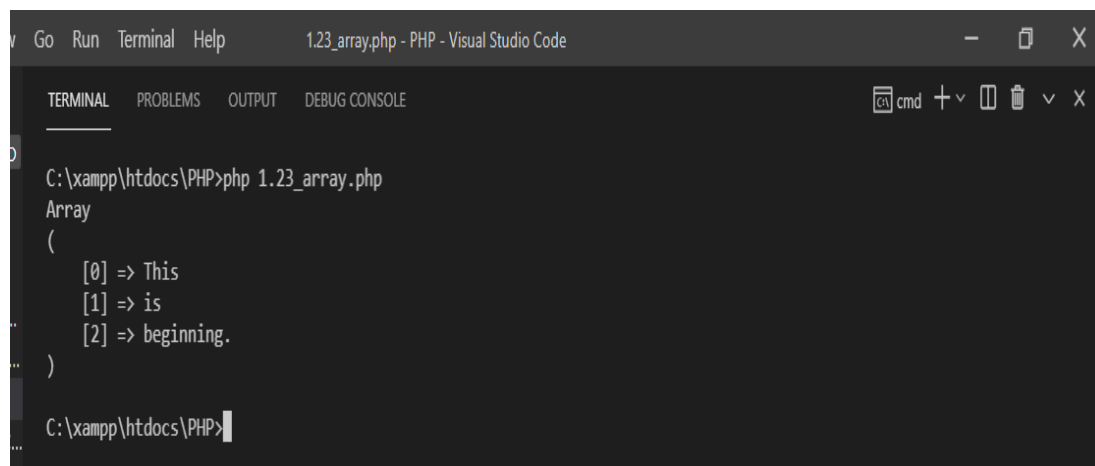
length of the string is21
THIS IS THE PHP WORLD
C:\xampp\htdocs\PHP>php 1.22_Palindrome.php
malayalam string is palindrome
C:\xampp\htdocs\PHP>
```

1.23) Write a program to break a sentence and store it in array.

Eg. Sentence: "This is beginning."

array: ([0] => This, [1] => is, [2] => beginning)

```
<?php
$sentence="This is beginning.";
$j=explode(" ", $sentence);
print_r($j);
?>
```



The screenshot shows a Visual Studio Code window with a terminal open. The terminal title is "1.23\_array.php - PHP - Visual Studio Code". The terminal output shows the command "C:\xampp\htdocs\PHP>php 1.23\_array.php" being executed, followed by the output "Array" and a formatted array: "[0] => This", "[1] => is", and "[2] => beginning.".

```
Go Run Terminal Help 1.23_array.php - PHP - Visual Studio Code

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE cmd +v [] trash v x

C:\xampp\htdocs\PHP>php 1.23_array.php
Array
(
    [0] => This
    [1] => is
    [2] => beginning.
)

C:\xampp\htdocs\PHP>
```