

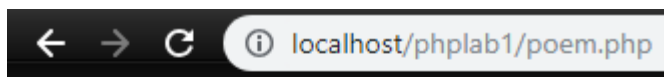
PHP assignment 1

R00163379

Stephen twomey

Q.1 poem

```
<?php
echo nl2br("Adam \n had 'em");//prints value nl2br puts had 'em on a new line
echo '<ul>';//unordered list
echo '<li>without flowing wine,</li>';
echo '<li>How to enjoy lovely</li>';
echo '<li>Cherry blossoms.</li>';
echo '</ul>';
?>
```



Adam
had 'em

- without flowing wine,
- How to enjoy lovely
- Cherry blossoms.

Q.2 pet

```
<?php
$species = $_GET['species'];//asks for user to enter a species
$noise = $_GET['noise'];//asks user to enter the noise of that species
echo '<p>';
echo 'Your ';
echo $species;
echo ' goes ';
echo $noise;
echo '-';
echo $noise;
echo '</p>';
?>
```

← → ↻ ⓘ localhost/phplab1/pet.php?species=dog&noise=woof

Your dog goes woof-woof

Q.3 bakuchi

<?php

```
$die1 = rand(1, 6); //rolls random number between 1 and 6
$die2 = rand(1, 6);
$stake = $_GET['stake']; //gets the stake that a person enters
$winnings = $stake*4; //multiplies the winnings
echo $die1;
echo ("");
echo $die2;
echo ("");
if ($die1 == $die2){
    echo($winnings); //if die 1 and die 2 are equal then the person wins
}
else
    echo ("you won nothing, try again");
```

?>

← → ↻ ⓘ localhost/phplab1/bakuchi.php?stake=10

46you won nothing, try again

Q.3B bakuchi1

<?php

```
$die1 = rand(1, 6); //rolls random number between 1 and 6
$die2 = rand(1, 6);
$die3 = rand(1, 6);
$stake = $_GET['stake']; //gets the stake that a person enters
$winnings = $stake*4; //multiplies the winnings
echo nl2br($die1);
echo nl2br($die2);
echo nl2br($die3);
```

```
        if ($die1 == $die2 && $die1 == $die3 && $die2 == $die3){//if die 1,die 2 and die 3 are equal
then the person wins
```

```
            echo($winnings);
```

```
        }
```

```
    else
```

```
        echo ("you won nothing, try again");
```

```
?>
```



366you won nothing, try again

Q3.C bakuchi2

```
<?php
```

```
    $die1 = rand(1, 6);//rolls random number between 1 and 6
```

```
    $die2 = rand(1, 6);
```

```
    $die3 = rand(1, 6);
```

```
    $stake = $_GET['stake'];//gets the stake that a person enters
```

```
    $winnings = $stake*4;//multiplies the winnings
```

```
    echo nl2br($die1);
```

```
    echo nl2br($die2);
```

```
    echo nl2br($die3);
```

```
    if ($die1 == $die2 && $die1 == $die3){//if die 1,die 2 and die 3 are equal then the person
wins
```

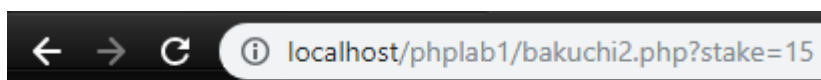
```
        echo($winnings);
```

```
    }
```

```
    else
```

```
        echo ("you won nothing, try again");
```

```
?>
```



646you won nothing, try again

Q.4 water

```
<?php
    $flat_rate = 120;//set flat rate to 120

    $extra_tax = 60;//set extra tax to 60

    $num_of_gallons = floor($_GET['num_of_gallons']);//asks the user for the number of gallons
that they used

    if ($num_of_gallons >= 13000) {//if the number of gallons is greater than 13000 then you
must pay extra tax

        $extra_usage = $num_of_gallons - 12000;

        $taxToPay = $flat_rate + (12000*0.05) + ($extra_usage/1000)*$extra_tax;

    }

    else

        $taxToPay = $flat_rate + ($num_of_gallons*0.05);

    echo ('tax to pay: ' . $taxToPay. 'eurines');

?>
```



Q.5 pints

```
<?php

$numpints = round ($_GET['num_pints'],2);//round, rounds the input to nearest 2 decimals

$quarts = 0.5;// half quart is 1 pint

$fluid_ounces = 16;// 16 fluid ounces is 1 pint

$Gills = 4;// 4 gills is 1 pint and 4 fluid ounces is 1 gill

$ pintstomills = 568.26125;//1 pint is 568 mills roughly

echo '<table border = 1>';//sets table border to 1

    echo '<thead>';//table header

        echo '<tr>';

            echo '<th>' , 'pints' , '</th>';//header for pints
```

```

        echo '<th>' , 'quarts' , '</th>';//header for quarts

        echo '<th>' , 'fluid_ounces' , '</th>';//header for fluid ounces

        echo '<th>' , 'Gills' , '</th>';//header for gills

    echo '</tr>';

echo '</thead>';

echo '<body>';

    echo '<tr>';

        echo '<td>' , $numpints , '</td>';

        echo '<td>' , $numpints * $quarts , '</td>';

        echo '<td>' , $numpints * $fluid_ounces , '</td>';

        echo '<td>' , $numpints * $Gills , '</td>';

    echo '</tr>';

echo '</body>';

echo '</table>';

echo '<table border = 1>';

    echo '<thead>';

        echo '<tr>';

            echo '<th>' , 'pints' , '</th>';

            echo '<th>' , 'ML' , '</th>';

        echo '</tr>';

    echo '</thead>';

    echo '<body>';

        echo '<tr>';

            echo '<th>' , $numpints , '</th>';

            echo '<th>' , round($numpints * $pintstomills,1) , '</th>';// rounds
to nearest decimals

        echo '</tr>';

    echo '</body>';

echo '</table>';

?>

```

← → ↻ ⓘ localhost/phplab1/pints.php?num_pints=5

| pints | quarts | fluid_ounces | Gills |
|-------|--------|--------------|-------|
| 5 | 2.5 | 80 | 20 |

| pints | ML |
|-------|--------|
| 5 | 2841.3 |

Q.6 cash

<?php

```
    echo '<form action = "cash.php" = method="get">;//prints out form

    echo '<div>';

    echo '<label for = "num_cents">'. 'cents:'. '</label> ';

    echo '<input type = "text" name = num_cents id = "num_cents" size = "6" maxlenght = "6"

/>';

    echo '<label for = "num_nickels">'. 'nickels:'. '</label> ';

    echo '<input type = "text" name = num_nickels id = "num_nickels" size = "6" maxlenght = "6"

/>';

    echo '<label for = "num_dimes">'. 'dimes:'. '</label> ';

    echo '<input type = "text" name = num_dimes id = "num_dimes" size = "6" maxlenght = "6"

/>';

    echo '<label for = "num_quarters">'. 'quarters:'. '</label> ';

    echo '<input type = "text" name = num_quarters id = "num_quarters" size = "6" maxlenght =

"6" />';

    echo '<label for = "num_halfdollars">'. 'half dollars:'. '</label> ';

    echo '<input type = "text" name = num_halfdollars id = "num_halfdollars" size = "6"

maxlenght = "6" />';

    echo '<label for = "num_dollars">'. 'dollars:'. '</label> ';

    echo '<input type = "text" name = num_dollars id = "num_dollars" size = "6" maxlenght = "6"

/>';

    echo '</div>';

    echo '<div>';

    echo '<input type = "submit" value = "convert" />;//submit button

    echo '<input type = "reset" />;//reset button

    echo '</div>';

    echo '</form>';
```

```

$cents = $_GET["num_cents");//asks user for number of cents

$nickels = $_GET["num_nickels"];

$dimes = $_GET['num_dimes'];

$quarters = $_GET['num_quarters'];

$halfdollars = $_GET['num_halfdollars'];

$dollars = $_GET['num_dollars'];

//convert the coins to cents as cent is equal to 1

$centworth = 1;//sets cent to 1

$nickelsworth = 5;

$dimesworth = 10;

$quarterworth = 25;

$halfdollarsworth = 50;

$dollarsworth = 100;

echo($cents*$centworth + $nickels*$nickelsworth + $dimes*$dimesworth +
$quarters*$quarterworth + $halfdollars*$halfdollarsworth + $dollars*$dollarsworth);

echo(' cents');

?>

```

cents: nickels: dimes: quarters: half dollars: dollars:
 725 cents

Q.7 sort

```
<?php
```

```

$num1 = $_GET["num1");//asks user for number 1

$num2 = $_GET["num2"];

$num3 = $_GET["num3"];

if (($num1 > $num2 && $num1 > $num3) && ($num2 > $num3))//if 1>2>3
echo $num1.', '.$num2.', '.$num3;//print out num1 then num2 then num3

if (($num2 > $num3 && $num2 > $num1) && ($num3 > $num1))//2>3>1
echo $num2.', '.$num3.', '.$num1;

if (($num3 > $num2 && $num3 > $num1) && ($num2 > $num1))//3>2>1
echo $num3.', '.$num2.', '.$num1;

```

```

    if (($num3 > $num2 && $num3 > $num1) && ($num1 > $num2))//3>1>2
echo $num3.', '.$num1.', '.$num2;

    if (($num1 > $num2 && $num1 > $num3) && ($num3 > $num2))//1>3>2
echo $num1.', '.$num3.', '.$num2;

if (($num2 > $num3 && $num2 > $num1) && ($num1 > $num3))//2>1>3
echo $num2.', '.$num1.', '.$num3;

    if (($num1 == $num2 || $num2 == $num1) && ($num3 != $num1 || $num3 !=
$num2))//if 1 = 2, 2 = 1 and 3 is not equal to 1 or 2

    echo $num1.', '.$num2.', '.$num3;//prints out num1 or num 2 in either order since they are the
same

    if (($num1 == $num3 || $num3 == $num1) && ($num2 != $num1 || $num2 != $num3))//if 1
= 3, 3 = 1 and 2 is not equal to 1 or 3

        echo $num3.', '.$num1.', '.$num2;

    if (($num2 == $num3 || $num3 == $num2) && ($num1 != $num2 || $num1 != $num3))//if 2
= 3, 3 = 2 and 1 is not equal to 2 or 3

    echo $num3.', '.$num2.', '.$num1;

    if (($num2 == $num1 || $num1 == $num2) && ($num3 == $num1 || $num3 == $num2))//if all 3
numbers are equal

    echo $num1.', '.$num2.', '.$num3;

?>

```



11, 4, 3

Q.8 votes

<?php

```

    $age = $_GET["age");//asks user for their name

    $residency = $_GET["residency"];

    $nationality = $_GET["nationality"];

    //Irish

    if ($age == "adult" && ($residency == "home" || $residency != "home") && $nationality ==
"irish")/*if age is adult and nationality is irish

    then the user can vote in every election*/

        echo("You can vote in every election and referendum");

```



```

        if ($age == "child" && ($residency == "home" || $residency != "home") &&
$nationality == "irish")

            echo("You can't vote in any election");

//British

if ($age == "adult" && $residency == "home" && $nationality == "british")

    echo("You can vote in the local, European and Dáil elections");

    if ($age == "child" && ($residency == "home" || $residency != "home") &&
$nationality == "british")

        echo("You can't vote in any election");

// other eu

if ($age == "adult" && $residency == "home" && $nationality == "other_eu")

    echo("You can vote in the local and European elections");

    if ($age == "child" && ($residency == "home" || $residency != "home") &&
$nationality == "other_eu")

        echo("You can't vote in any election");

// non eu

if ($age == "adult" && $residency == "home" && $nationality == "non_eu")

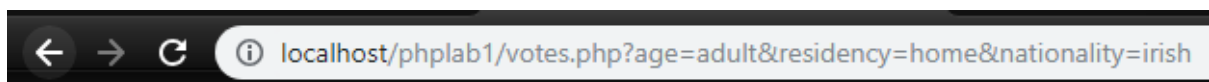
    echo("You can vote in the local elections");

    if ($age == "child" && ($residency == "home" || $residency != "home") &&
$nationality == "non_eu")

        echo("You can't vote in any election");

?>

```



You can vote in every election and referendum

Q.9 bmi

```

<?php

//variables

$weight = $_GET["weight");//asks person for weight

$height = $_GET["height"];

$mheight = $height * $height;

$bmi = round($weight/$mheight);

// checking different bmis

```

```
if ($bmi <= 15)//if your bmi is less than or equal to 15 the echo prints out that you are very
severly underweight
```

```
    echo '<p>Your bmi is: '.$bmi.' which is Very severely underweight </p>';
```

```
elseif (($bmi > 15) && ($bmi <= 16))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is Severely underweight </p>';
```

```
elseif (($bmi > 16) && ($bmi <= 18.5))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is Underweight </p>';
```

```
elseif (($bmi > 18.5) && ($bmi <= 25))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is Normal(healty weight) </p>';
```

```
elseif (($bmi > 25) && ($bmi <= 30))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is Overweight </p>';
```

```
elseif (($bmi > 30) && ($bmi <= 35))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is obese class I(Moderately obese) </p>';
```

```
elseif (($bmi > 35) && ($bmi <= 40))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is obese class II(Severely obese) </p>';
```

```
elseif (($bmi > 40) && ($bmi <= 45))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is obese class III(Very severely obese) </p>';
```

```
elseif (($bmi > 45) && ($bmi <= 50))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is obese class IV(Morbidly obese) </p>';
```

```
elseif (($bmi > 50) && ($bmi <= 60))
```

```
    echo '<p>Your bmi is: '.$bmi.' which is obese class V(Super obese) </p>';
```

```
elseif ($bmi > 60)
```

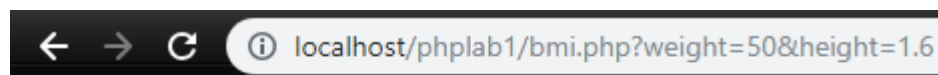
```
    echo '<p>Your bmi is: '.$bmi.' which is obese class VI(Hyper obese) </p>';
```

```
$idealbmi = 21.75;//sets ideal bmi to 21.75
```

```
$idealweight = $idealbmi * (pow($height,2));//calculates the ideal weight by using the ideal
bmi and multiplying the height
```

```
echo 'you ideal weight is ' . $idealweight. 'kg';
```

```
?>
```



Your bmi is: 20 which is Normal(healty weight)

you ideal weight is 55.68kg

Q.10

<?php

```
// get variables

$house = $_GET["house");//asks the user for their house type

$buyer = $_GET["buyer"];

$occupation = $_GET["occupation"];

$price = $_GET["price"];

$area = $_GET["area"];

// variables

$untaxed = 125000;//first 125 thousand

$taxed = 875000;

$dutyat7 = $price * 0.07;

$dutyat9 = $price * 0.09;

//print output

echo '<p>Your choices: House:'. $house.', Buyer:'. $buyer.', Title:'. $occupation.';</p>';

if ($house == "new" && $occupation == "owner" && $buyer == "first")

    echo '<p>Total price: '. $price.' for Stamp Duty at 0%</p>';

elseif ($area < 125 )//if the area is less then 125 square metres then there is no tax

    echo '<p>Total price: '. $price.' for Stamp Duty at 0%</p>';

elseif ($price <= $untaxed)

    echo '<p>Total price: '. $price.' for Stamp Duty at 0%</p>';

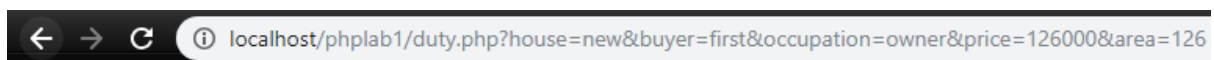
elseif ($price > $untaxed && $price <= 875000)

    echo '<p>Total price: ' . ($price + $dutyat7). ' for Stamp Duty at 7%</p>';//if the house
cost is over 125 thousand then the tax is 7% of the cost over 125k

elseif ($price > $taxed)

    echo '<p>Total price: ' . ($price + $dutyat9). ' for Stamp Duty at 9%</p>';//if the house
cost is over 875 thousand then the tax is 9% of the cost over 875k

?>
```



Your choices: House:new, Buyer:first, Title:owner;

Total price: 126000 for Stamp Duty at 0%