

Week 3

Task 1a

Operator	Type of Operator	Operation of Operator
=	Assignment	Assigns a value
<>	Comparison (Not equal to)	Checks inequality
==	Comparison (Equal to)	Checks equality
<=	Comparison (Less than or equal)	Checks less than or equal
and	Logical (AND)	Returns true if both conditions are true
*	Arithmetic (Multiplication)	Multiplies numbers
	Logical (OR)	Returns true if either condition is true
>	Comparison (Greater than)	Checks if greater than
&&	Logical (AND)	Returns true if both conditions are true
!	Logical (NOT)	Negates a boolean
/	Arithmetic (Division)	Divides numbers
or	Logical (OR)	Returns true if either condition is true
!=	Comparison (Not equal to)	Checks inequality

Task 1b

- ||, or
- !=, <>
- and, &&

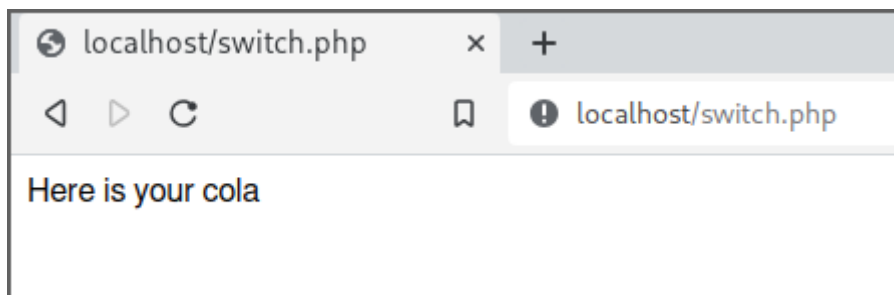
Task 2a

Description of What is to Be Stored	Data Type	Justification for Choosing That Particular Data Type	Variable Name (Must be Descriptive, and in PHP Format)
Store a person's age	Int	A person's age, in years, is a whole number	<code>\$userAge</code>
Store an interest rate	Float	An interest rate is normally a percentage	<code>\$interestRate</code>

Description of What is to Be Stored	Data Type	Justification for Choosing That Particular Data Type	Variable Name (Must be Descriptive, and in PHP Format)
Store a person's surname	String	A name is a word	<code>\$userSurname</code>
Store an Australian postcode	String	Post codes are a four-digit number that can start with 0	<code>\$australianPostcode</code>
Store Australian and international postcodes	String	Post codes can vary across countries	<code>\$internationalPostcode</code>
Store a person's date of birth	String	Dates are complicated, and can be stored as DD/MM/YYYY	<code>\$dateOfBirth</code>
Store whether a light is switched on or off	Bool	It is a binary value	<code>\$lightSwitch</code>

Task 3a

```
<?php
    function getDrink(int $choice)
    {
        switch ($choice)
        {
            case 1:
                return 'lemonade';
            case 2:
                return 'orange squash';
            case 3:
                return 'cola';
            case 4:
                return 'ginger beer';
            default:
                return null;
        }
    }
    echo 'Here is your ' . getDrink(3);
?>
```



Task 3b

```
FUNCTION getSchoolMessageFromAge(age)
    IF age < 3 THEN
        RETURN 'You are too young for school'
    ELSEIF age <= 4 THEN
        RETURN 'You can go to preschool'
    ELSEIF age < 12 THEN
        RETURN 'You can go to primary school'
    ELSEIF age < 18 THEN
        RETURN 'You can go to high school'
    ELSE THEN
        RETURN 'You do not have to go to school'
    END IF
END FUNCTION

age <- INPUT
PRINT getSchoolMessageFromAge(age)
```

Task 3c

```
<?php

function getSchoolMessageFromAge(int $age)
{
    if ($age < 3)
    {
        return 'You are too young for school';
    }
    elseif ($age <= 4)
    {
        return 'You can go to preschool';
    }
}
```

```
elseif ($age < 12)
{
    return 'You can go to primary school';
}
elseif ($age < 18)
{
    return 'You can go to high school';
}
else
{
    return 'You do not have to go to school';
}
}
echo getSchoolMessageFromAge(17);
?>
```