week 5

Task 1a

An array stores values in a list that can be called by their index whereas a record is a type of associative array that stores entries in a key value pair that can call values with their key name

example.php

```php
// Array
$fruits = array("apple", "banana", "cherry");
echo $fruits[1]; // Outputs: banana

// Record
$person = array("name" => "John", "age" => 30, "city" => "New York");
echo $person["age"]; // Outputs: 30
```

Task 1b

draws.csv

```
Draw No,Date,Num 1,Num 2,Num 3,Num 4,Num 5,Supp Num
45,7 Mar 2020,22,33,23,4,14,7
46,14 Mar 2020,34,35,23,12,18,31
```

draws.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<DoveLottoDraws>
  <Draw>
     <DrawNo>45</DrawNo>
     <Date>7 Mar 2020</Date>
     <Num1>22</Num1>
     <Num2>33</Num2>
     <Num3>23</Num3>
     <Num4>4</Num4>
     <Num5>14</Num5>
```

```
        <SuppNum>7</SuppNum>
    </Draw>
    <Draw>
        <DrawNo>46</DrawNo>
        <Date>14 Mar 2020</Date>
        <Num1>34</Num1>
        <Num2>35</Num2>
        <Num3>23</Num3>
        <Num4>12</Num4>
        <Num5>18</Num5>
        <SuppNum>31</SuppNum>
    </Draw>
</DoveLottoDraws>
```

Task 2a

A while look checks the given condition at the start of the loop whereas the do while loop checks the condition at the end of the loop.

Task 2b

count.php

```
$i=0;
while($i<10){
        $i++;
        echo "$i\n";
}
```

Task 2c

tempFilter.php

```php
<?php
$temps = array(
        ["date"=>12,"maxTemp"=>23.3],
        ["date"=>13,"maxTemp"=>20.8],
        ["date"=>14,"maxTemp"=>20.8],
        ["date"=>15,"maxTemp"=>24.6],
        ["date"=>16,"maxTemp"=>31.3],
        ["date"=>17,"maxTemp"=>28.8],
```

```php
            ["date"=>18,"maxTemp"=>31.8],
            ["date"=>19,"maxTemp"=>32.6],
            ["date"=>20,"maxTemp"=>23.8],
            ["date"=>21,"maxTemp"=>20.6],
            ["date"=>22,"maxTemp"=>21.8],
            ["date"=>23,"maxTemp"=>19.2],
            ["date"=>24,"maxTemp"=>20.2],
            ["date"=>25,"maxTemp"=>24.3],
);

echo "
        <style>
        td:nth-child(even), th:nth-child(even){
                background-color: #D6EEEE;
        }
    </style>
        <table>
                <tr>
                        <th>Date</th>
                        <th>Max Temp</th>
                </tr>";

for($i=0;$i<count($temps);$i++){
        $j = $temps[$i];
        $l = $j["maxTemp"];
        if($l<20 || ($l<32 && $l>22)){
                echo "<tr>
                                <td>{$j["date"]}th</td>
                                <td>$l</td>
                        </tr>";
        };
};

echo "</table>";
```

Result:

Date	Max Temp
12th	23.3
15th	24.6
16th	31.3
17th	28.8
18th	31.8
20th	23.8
23th	19.2
25th	24.3