

Name: Atul Kumar	Roll No. B55	Registration No: 12102801
Subject: Programming in PHP	Assignment: 01	

Q1. Write a PHP program to check if a person is eligible to vote or not.

Condition:

- Minimum age required for vote is 18.
- You can use PHP Functions.
- You can use Decision Making Statements.

Answer:

```
<?php
function check_vote()
{
    $name = "Atul Kumar";
    $age = 21;
    if ($age >= 18) {
        echo $name . ", You are eligible for casting vote";
    } else {
        echo $name . ", You are not eligible for casting vote. ";
    }
}
check_vote(); |

?>
```

Output: -

Atul Kumar, You are eligible for casting vote

Q2. You need to write a program in PHP to remove specific element by value from an array using PHP program.

Condition:

- Take an array with list of month names
- Take a variable with the name of value to be deleted.
- You can use PHP array functions or foreach loop.

Answer:

```
<?php

$del_item = 'fruit';
$months = array('seed', 'water', 'plant', 'fruit', 'tree');
if (($key = array_search($del_item, $months)) !== false) {
    unset($months[$key]);
}
var_dump($months);

?>
```

Output: -

```
array(4) { [0]=> string(4) "seed" [1]=> string(5) "water" [2]=> string(5) "plant"
[4]=> string(4) "tree" }
```

Q3. You need to write a PHP program to calculate electricity bill using if-else conditions.

Conditions:

- For first 50 units – Rs. 3.50/unit
- For next 100 units – Rs. 4.00/unit
- For next 100 units – Rs. 5.20/unit
- For units above 250 – Rs. 6.50/unit
- You can use conditional statements.

Answer: -

```
<!DOCTYPE html>

<head>
    <title>Calculate Electricity Bill</title>
</head>

<?php
$result_str = $result = '';
if (isset($_POST['unit-submit'])) {
    $units = $_POST['units'];
    if (!empty($units)) {
        $result = calculate_bill($units);
        $result_str = 'Total amount of ' . $units . ' - ' . $result;
    }
}
/**
 * To calculate electricity bill as per unit cost
 */
function calculate_bill($units) {
    $unit_cost_first = 3.50;
    $unit_cost_second = 4.00;
    $unit_cost_third = 5.20;
    $unit_cost_fourth = 6.50;

    if($units <= 50) {
        $bill = $units * $unit_cost_first;
    }
    else if($units > 50 && $units <= 100) {
        $temp = 50 * $unit_cost_first;
        $remaining_units = $units - 50;
        $bill = $temp + ($remaining_units * $unit_cost_second);
    }
    else if($units > 100 && $units <= 200) {
        $temp = (50 * 3.5) + (100 * $unit_cost_second);
        $remaining_units = $units - 150;
        $bill = $temp + ($remaining_units * $unit_cost_third);
    }
    else {
        $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
        $remaining_units = $units - 250;
        $bill = $temp + ($remaining_units * $unit_cost_fourth);
    }
    return number_format((float)$bill, 2, '.', '');
}

?>
```

```

<body>
  <div id="page-wrap">
    <h1>Calculate Electricity Bill</h1>

    <form action="" method="post" id="quiz-form">
      <input type="number" name="units" id="units" placeholder="Please
enter no. of Units" />
      <input type="submit" name="unit-submit" id="unit-submit"
value="Submit" />
    </form>

    <div>
      <?php echo '<br />' . $result_str; ?>
    </div>
  </div>
</body>
</html>

```

Output: -

Calculate Electricity Bill

Total amount of 120 - 419.00