

**EXPERIMENT NO 5****Working on PHP Basic Controls**

**AIM:** To create simple PHP applications using the various Control Structures like sequence, decision, loop and switch cases.

**Question (1).** Make an Electricity Bill Calculator in PHP using the conditional statements with the following conditions specified below.

- For the 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 50 – Rs. 6.50/unit

**SOURCE CODE:****PHP**

```
<html>
  <head>
    <title>Electricity Bill in PHP</title>
  </head>
  <body>
    <p align="right">
      <a href="http://localhost/phpScripts/"><button
onmouseover="this.style.color='red'">INDEX</button></a>
    </p>
    <center>
      <h2>Electricity Bill in PHP</h2>
      <form method="post">
        <div>
          <label for="funits">Enter your electricity units: </label>
          <input type="number" name="units">
        </div>
        <div>
          <input type="submit" value="Submit">
        </div>
      </form>
    </center>
    <?php
    $U=$_POST["units"];
    $RES;
    if (0<$U && $U<=50){
      $RES=$U*3.50;
```

```
        echo "Electricity Bill for ".$U." units is: Rs. ".$RES;
    }
    else if (50<$U && $U<=150){
        $first50=50*3.50;
        $next100=($U-50)*4;
        $RES=$first50+$next100;
        echo "Electricity Bill for ".$U." units is: Rs. ".$RES;
    }
    else if (150<$U && $U<=250){
        $first50=50*3.50;
        $next100=100*4;
        $nextnext100=($U-150)*5.20;
        $RES=$first50+$next100+$nextnext100;
        echo "Electricity Bill for ".$U." units is: Rs. ".$RES;
    }
    else if ($U>250){
        $first50=50*3.50;
        $next100=100*4;
        $nextnext100=150*5.20;
        $Unit200=($U-250)*6.50;
        $RES=$first50+$next100+$nextnext100+$Unit200;
        echo "Electricity Bill for ".$U." units is: Rs. ".$RES;
    }
    echo "<br><hr>";
?>
</body>
</html>
```

## OUTPUT SCREENSHOT:

[INDEX](#)

### Electricity Bill in PHP

Enter your electricity units:

Electricity Bill for 5676 units is: Rs. 36624

---

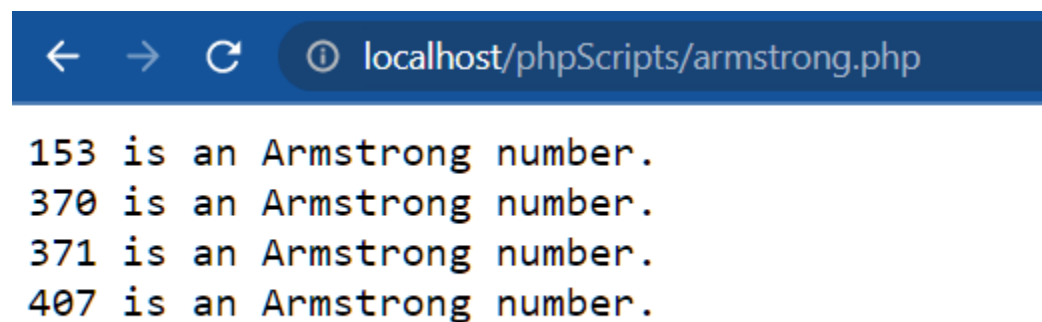
**Question (2).** Implement the below-given software design using PHP. This algorithm finds all 3-digit Armstrong numbers.

- Step 1. [INITIALIZE N WITH THE FIRST 3-DIGIT NUMBER]  $N \leftarrow 100$
- Step 2. REPEAT STEPS 3 THROUGH 10 UNTIL  $N > 999$
- Step 3. [INITIALIZE S, WHICH HOLDS THE SUM OR THE CUBES]  $S \leftarrow 0$
- Step 4.  $M \leftarrow N$  [THIS IS TO MAKE A COPY OF N]
- Step 5. REPEAT STEP 6 THROUGH STEP 8 WHILE  $M > 0$
- Step 6. COMPUTE  $REM \leftarrow \text{REMAINDER OF } (M/10)$
- Step 7. COMPUTE  $S \leftarrow S + REM*REM*REM$

- Step 8. COMPUTE  $M \leftarrow \text{INTEGER PART OF } (M/10)$
- Step 9. IF  $S = N$  THEN PRINT N END-IF
- Step 10. [INCREMENT N TO TAKE THE NEXT NUMBER] COMPUTE  $N \leftarrow N + 1$  END-REPEAT
- Step 11. END

**SOURCE CODE:****PHP**

```
<?php
$N = 100;
while ($N <= 999) {
    $S = 0;
    $M = $N;
    while ($M > 0) {
        $REM = $M % 10;
        $S += $REM * $REM * $REM;
        $M = (int)($M / 10);
    }
    if ($S == $N) {
        echo $N . " is an Armstrong number.<br>";
    }
    $N++;
}
```

**OUTPUT SCREENSHOT:**

**Question (3).** Determine the difference between the two given dates. Construct a flowchart to show how to do it.

**SOURCE CODE:****PHP**

```
<?php
$sd = date_create(date('Y-m-d'));
$ed = date_create('2025-04-08');
$time = date_diff($sd, $ed);
echo "No. of days left till April 8, 2025 is: " . $time->format("%y years %m months
%d days") . "<br><hr>";
?>
```

**OUTPUT SCREENSHOT:**

No. of days left till April 8, 2025 is: 1 years 4 months 13 days

---