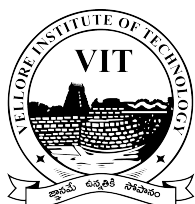


---

# CLASS ASSIGNMENT

---

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Date	5th October 2021



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**AP**

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### Question 1 :

Write a PHP program, which changes the color of the first character of a word in a sentence.

*firstCharColor.php*

---

```
1 <?php
2 $sentence = 'Gudi Varaprasad from Web Technologies class is
   doing this assignment';
3 $sentence = preg_replace('/(\b[a-z])/i',
4 '<span style="color:red;">\1</span>', $sentence);
5 echo $sentence;
6 ?>
```

---

Output :



Gudi Varaprasad from Web Technologies  
class is doing this assignment

[CLICK HERE FOR SOURCE CODE](#)

## Question 2 :

Write a PHP program to compute the sum of the prime numbers less than 200.

*sumOfPrimes.php*

---

```
1 <?php
2 $userArray = array();
3 $notPrime = false;
4 for ($i = 2; $i<200; $i++)
5 {
6     $notPrime = true;
7     for ($j = 2; $j<=($i/2); $j++)
8     {
9         if ($i%$j==0) {
10             $notPrime = false;
11             break;
12         }
13     }
14     if ($notPrime) {
15         array_push($userArray,$i);
16     }
17     if (count($userArray)==200) {
18         break;
```

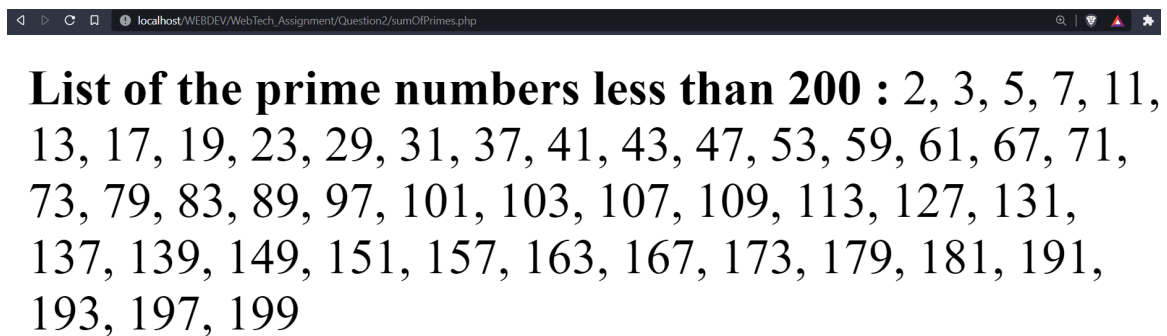
```

19     }
20 }
21 echo '<b>'. "List of the prime numbers less than 200 :
    '.'.</b>';
22 echo implode(", ", $userArray); echo '<br>'; echo '<br>';
23 echo "Sum of the prime numbers less than 200 = ";
24 echo '<b>'. array_sum($userArray) . '</b>'. "\n";
25 ?>

```

---

Output :



**List of the prime numbers less than 200 :** 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199

Sum of the prime numbers less than 200 = **4227**

### Question 3 :

Get two input number using Text box ,Select operator using select option- use submit button to perform particular operation.

*calculator.php*

---

```
1 <?php
2 $result = "";
3 class calculator
4 {
5     var $a;
6     var $b;
7
8     function userOperation($operator)
9     {
10         switch($operator)
11         {
12             case '+':
13                 return $this->a + $this->b;
14                 break;
15
16             case '-':
17                 return $this->a - $this->b;
18                 break;
19
```

```

20         case '*':
21             return $this->a * $this->b;
22         break;
23
24         case '/':
25             return $this->a / $this->b;
26         break;
27
28         default:
29             return "Selected Operator not found";
30     }
31 }
32 function output($a, $b, $c)
33 {
34     $this->a = $a;
35     $this->b = $b;
36     return $this->userOperation($c);
37 }
38 }
39
40 $cal = new calculator();
41 if(isset($_POST['submit']))
42 {
43     $result =
44         $cal->output($_POST['n1'], $_POST['n2'], $_POST['userOP']);
45 }

```

```

45  ?>

46

47  <form method="POST">

48  <table align="center" cellpadding="10" cellspacing="0">

49      <tr>

50          <td>Enter 1st Number : </td>

51          <td><input type="text" name="n1"><br></td>

52      </tr>

53

54      <tr>

55          <td>Enter 2nd Number : </td>

56          <td><input type="text" name="n2"><br></td>

57      </tr>

58

59      <tr>

60          <td>Select Operator</td>

61          <td><select name="userOP">

62              <option value="+"> + </option>

63              <option value="-"> - </option>

64              <option value="*"> * </option>

65              <option value="/"> / </option>

66          </select></td>

67      </tr>

68

69      <tr>

70          <td><input type="submit" name="submit" value="Submit

```

```

        button"></td>
71     </tr>
72
73     <tr>
74         <td>
75             <?php echo 'Answer = ' . '<b>' . $result . '</b>';
              ?>
76         </td>
77     </tr>
78
79 </table>
80 </form>

```

---

[CLICK HERE FOR SOURCE CODE](#)

## Outputs :

<p>Enter 1st Number : <input type="text"/></p> <p>Enter 2nd Number : <input type="text"/></p> <p>Select Operator <div><div>+ - * /</div></div></p> <p><input type="button" value="Submit button"/></p> <p>Answer =</p>	<p>Enter 1st Number : <input type="text" value="10"/></p> <p>Enter 2nd Number : <input type="text" value="5"/></p> <p>Select Operator <div><div>+ - * /</div></div></p> <p><input type="button" value="Submit button"/></p> <p>Answer = <b>15</b></p>
<p>Enter 1st Number : <input type="text" value="8"/></p> <p>Enter 2nd Number : <input type="text" value="10"/></p> <p>Select Operator <div><div>- + * /</div></div></p> <p><input type="button" value="Submit button"/></p> <p>Answer = <b>-2</b></p>	<p>Enter 1st Number : <input type="text" value="7"/></p> <p>Enter 2nd Number : <input type="text" value="-3"/></p> <p>Select Operator <div><div>* + - /</div></div></p> <p><input type="button" value="Submit button"/></p> <p>Answer = <b>-21</b></p>



Enter 1st Number :	<input type="text" value="18"/>	Enter 1st Number :	<input type="text" value="0"/>
Enter 2nd Number :	<input type="text" value="3"/>	Enter 2nd Number :	<input type="text" value="7"/>
Select Operator	<input type="text" value="/"/>	Select Operator	<input type="text" value="/"/>
<input type="button" value="Submit button"/>		<input type="button" value="Submit button"/>	
Answer = 6		Answer = 0	

## Question 4 :

**Study Of Form Handling In PHP-** Design the personal information form ,submit and retrieve the form data using php \$\_POST, \$\_GET, \$\_REQUEST variable.

*GET\_form.php*

```

1 <html>
2 <head>
3     <title>Registration Form</title>
4     <meta http-equiv="Content-Type" content="text/html;
      charset=UTF-8">
5 </head>
6
7 <body bgcolor="pink">
8     <form action="GET_output.php" method="GET">
9         First name: <input type="text" name="firstname">
10        Last name: <input type="text" name="lastname"> <br><br>
11        Gender:

```

```

12     Male: <input type="radio" name="gender" value="male">
13     Female: <input type="radio" name="gender"
           value="female"><br><br>
14     Enter Ur Quote here...:
15     <textarea name="quote" id="quote" cols="30"
           rows="10"></textarea><br><br>
16     Select a level of education:<br>
17     <select id="education" value="edu" name="edu">
18         <option value="College">College</option>
19         <option value="school">School</option>
20     </select> <br><br>
21     Choose Ur hobbies: <br>
22     <input type="checkbox" id="Travelling"
           name="check_list[]" value="Travelling">
23     <label for="Travelling"> Travelling</label>
24     <input type="checkbox" id="Painting"
           name="check_list[]" value="Painting">
25     <label for="Painting"> Painting</label>
26     <input type="checkbox" id="Reading"
           name="check_list[]" value="Reading">
27     <label for="Reading">Reading</label><br><br>
28     <input type="submit" value="send data">
29 </form>
30 </body>
31 </html>

```

---

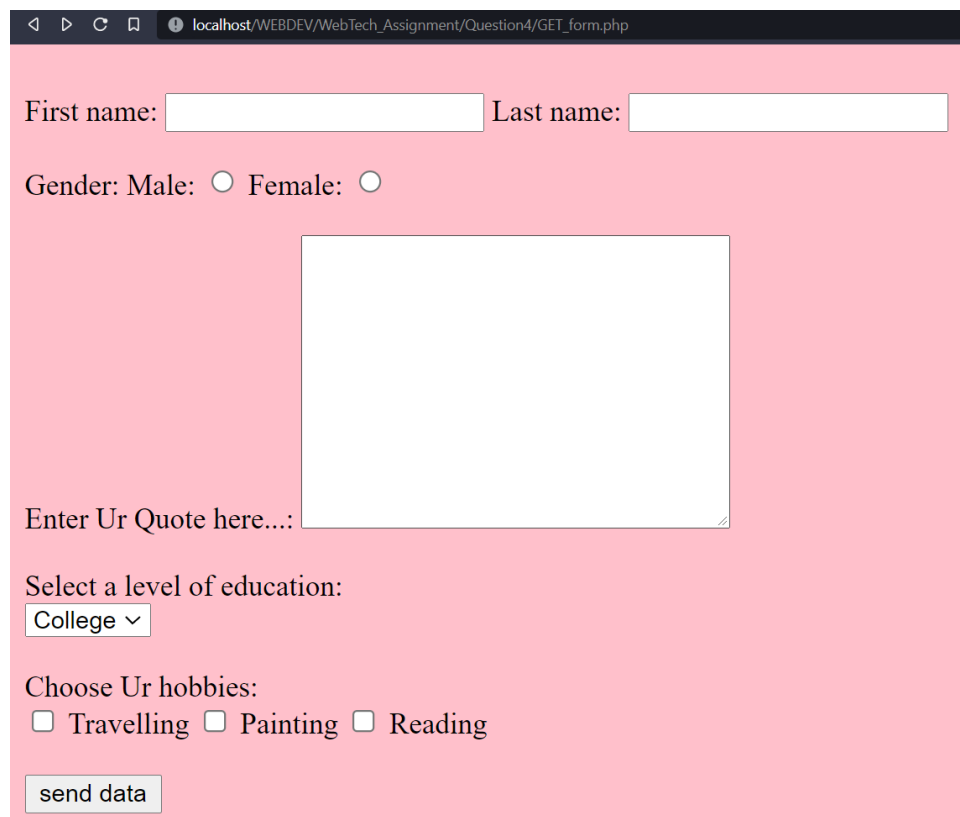
```
1 <?php
2 $fname=$_GET['firstname'];
3 $lname=$_GET['lastname'];
4 $gender=$_GET['gender'];
5 $text=$_GET['quote'];
6 $ed=$_GET["edu"];
7 ?>
8 <!DOCTYPE html>
9 <html lang="en">
10 <head>
11     <meta charset="UTF-8">
12     <meta http-equiv="X-UA-Compatible" content="IE=edge">
13     <meta name="viewport" content="width=device-width,
14         initial-scale=1.0">
15     <title>Document</title>
16 </head>
17 <body>
18     <p> Hello...,<b> <?php echo $fname; echo $lname;?> </b>
19         <br><br><br>
20     you are a <b><?php echo $gender;?></b>, and your quote
21         is ... <i> <?php echo $text;?></i>
22     <br><br><br>
23     you passed...<b> <?php echo $ed;?></b><br>
24     your hobbies are: <br>
25 <?php
```

```
23 if(!empty($_GET['check_list'])) {
24     foreach($_GET['check_list'] as $check) {
25         echo " ".$check;
26     }
27 }
28 ?>
29 </p>
30 </body>
31 </html>
```

---

[CLICK HERE FOR SOURCE CODE](#)

### Outputs :



The screenshot shows a web browser window with the address bar displaying 'localhost/WEBDEV/WebTech\_Assignment/Question4/GET\_form.php'. The form is set against a light pink background and includes the following elements:

- Two text input fields for 'First name:' and 'Last name:'.
- Gender selection with radio buttons for 'Male:' and 'Female:'.
- A large text area for 'Enter Ur Quote here...:'.
- A dropdown menu for 'Select a level of education:' with 'College' selected.
- Hobby selection with checkboxes for 'Travelling', 'Painting', and 'Reading'.
- A 'send data' button at the bottom.

Figure 1: PHP Form

Here we use method="GET" and \$\_GET variable to store data

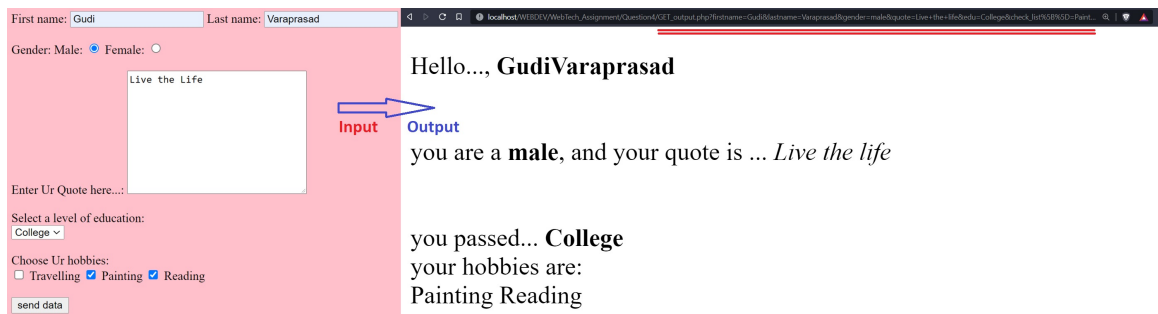


Figure 2: Using \$\_GET variable

Here we use method="POST" and \$\_POST variable to store data

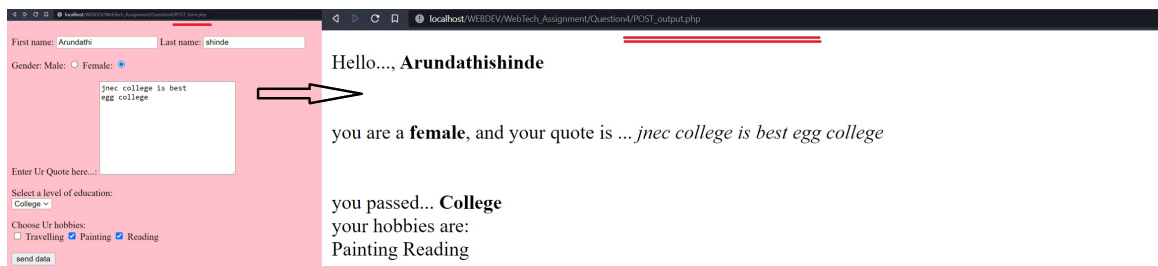


Figure 3: Using \$\_POST variable

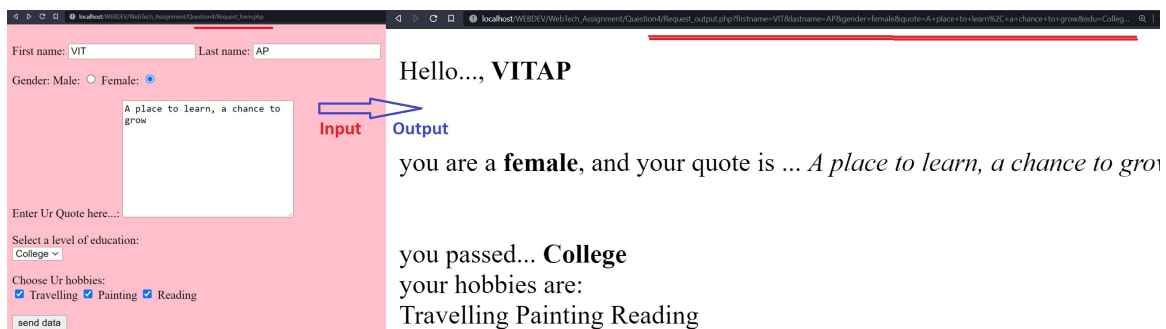


Figure 4: Using \$\_REQUEST variable

Here we use method="REQUEST" and \$\_REQUEST variable to store data

### Question 5 :

Create a webpage using PHP that consists of textboxes to read empid, salary, eName and address. The webpage should consist of submit and reset buttons. The form should be directed to a php file to :

- a. Check whether empid is proper or not (length of empid must be 8, the first four places of empid must be characters and the remaining are digits)
- b. Salary must contain digits only and number of digits should be in the range (4-6).
- c. eName must have characters only. The first character has to be capital letter.
- d. Display the length of the address on the webpage.

[CLICK HERE FOR SOURCE CODE](#)

*employeeForm.php*

---

```
1 <?php session_start(); ?>
2 <html>
3     <head>
4         <title>Form</title>
5         <meta http-equiv="Content-Type"
```

```

        content="text/html; charset=UTF-8">
6      <style>
7          .error {
8              color:red;
9          }
10     </style>
11 </head>
12 <body>
13     <h1><u>Employee Form</u></h1><br/>
14
15 <form action="validate.php" method="POST">
16     <?php
17         $empidERROR=$salaryERROR=$eNameERROR=$addressERROR="";
18         ?>
19
20     empid : <input type="text" name="empid" required/>
21     <span class="error">* <?php echo $empidERROR;?> </span>
22     <br><br>
23
24     salary : <input type="number" name="salary" required/>
25     <span class="error">* <?php echo $salaryERROR;?> </span>
26     <br><br>
27
28     eName : <input type="text" name="eName" required/>
29     <span class="error">* <?php echo $eNameERROR;?> </span>
30     <br><br>

```

26

27 address : <input type="text" name="address" required/>

28 <span class="error">\* <?php echo \$addressERROR;?>

</span> <br><br>

29

30 <input type="submit" value="Submit" />

31 <input type="reset" value="Reset" />

32 </form>

33 </body>

34 </html>

---

*validate.php*

---

1 <?php

2 \$empidERROR=\$salaryERROR=\$eNameERROR=\$addressERROR="";

3 \$addressMSG="";

4 \$empid = \$\_POST['empid'];

5 \$salary = \$\_POST['salary'];

6 \$eName = \$\_POST['eName'];

7 \$address = \$\_POST['address'];

8 if(\$\_SERVER['REQUEST\_METHOD']=='POST')

9 {

10 \$is\_char = preg\_match('/^[a-zA-Z]+\$/', \$eName);

11 \$is\_numeric = preg\_match('/^[0-9]+\$/', \$salary);

12 \$is\_alpha\_numeric = preg\_match('/^[a-zA-Z0-9]+\$/',

\$empid);

13 if(empty(\$\_POST['empid']))



```

14 {
15     $empidERROR="This field is empty";
16 } else {
17     if($is_alpha_numeric)
18     {
19         if(strlen($empid) == 8)
20         {
21             $empidArr1 = substr($empid,0,4);
22             $empidArr2 = substr($empid,4,8);
23             $checkChar = preg_match('/^[a-zA-Z]+$/',
24                                     $empidArr1);
25             $checkNum = preg_match('/^[0-9]+$/', $empidArr2);
26
27             if($checkChar==1 && $checkNum==1) {
28                 $empidERROR="Passed";
29             } else {
30                 $empidERROR="Characters and digits are in
31                     inappropriate places";
32             }
33         } else {
34             $empidERROR="not 8 characters";
35         }
36     } else {
37         $empidERROR="contains special characters";
38     }
39 }

```

```

38  if(empty($_POST['salary'])) {
39      $salaryERROR="This field is empty";
40  } else {
41      if ($is_numeric) {
42          if(strlen($salary)>=4 && strlen($salary)<=6)
43              {
44                  $salaryERROR='Passed';
45              } else {
46                  $salaryERROR='No. of Digits is not between 4-6.';
47              }
48      } else {
49          $salaryERROR='does not contain only numbers.';
50      }
51  }
52  if(empty($_POST['eName'])) {
53      $eNameERROR="This field is empty";
54  } else {
55      if ($is_char) {
56          if ctype_upper($eName[0])
57              {
58                  $eNameERROR='Passed';
59              } else
60              {
61                  $eNameERROR='First character is not Uppercase.';
62              }
63      } else {

```

```

64         $eNameERROR='does not contain only characters.';
65     }
66 }
67 if(empty($_POST['address'])) {
68     $addressERROR="This field is empty";
69 }else {
70     $salaryMSG= 'Length of Employee Address =
        '.strlen($address);
71     $addressERROR="Passed";
72 }
73 }
74 ?>
75 <html>
76     <head>
77         <title>Form</title>
78         <meta http-equiv="Content-Type"
            content="text/html; charset=UTF-8">
79         <style>
80             .error {
81                 color:red;
82             }
83         </style>
84     </head>
85     <body>
86         <h1><u>Employee Form</u></h1><br/>
87         <form action="validate.php" method="POST">

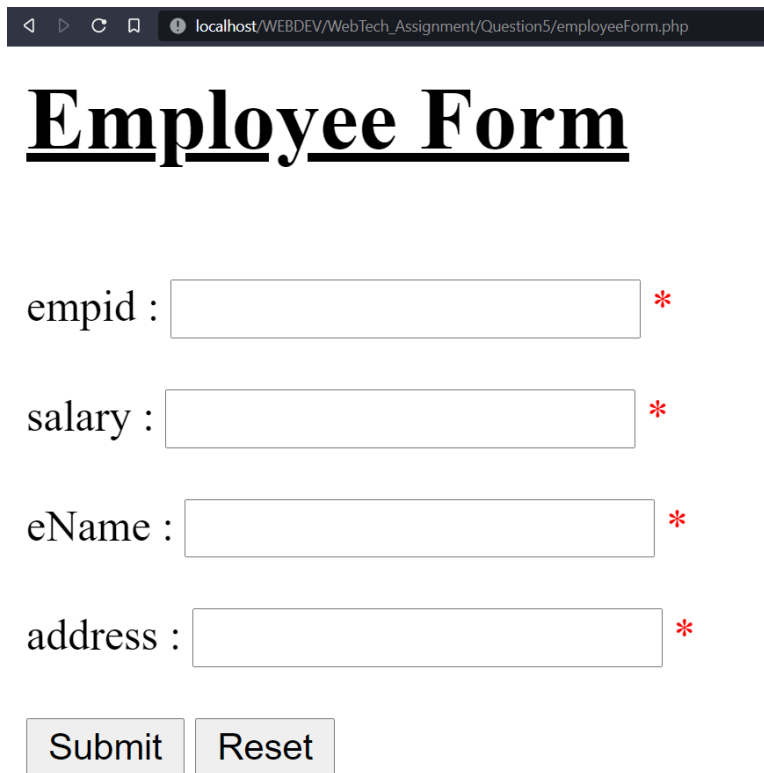
```

```

88
89      empid : <input type="text" name="empid" required/>
90      <span class="error">* <?php echo $empidERROR;?>
          </span> <br><br>
91
92      salary : <input type="number" name="salary"
          required/>
93      <span class="error">* <?php echo $salaryERROR;?>
          </span> <br><br>
94
95      eName : <input type="text" name="eName" required/>
96      <span class="error">* <?php echo $eNameERROR;?>
          </span> <br><br>
97
98      address : <input type="text" name="address"
          required/>
99      <span class="error">* <?php echo $addressERROR;?>
          </span> <br><br>
100
101      <input type="submit" value="Submit" />
102      <input type="reset" value="Reset" />
103  </form>
104  <br><hr><br>
105  <?php echo '<h3>' . 'Length of Employee Address =
          ' . strlen($address) . '</h3>'; ?>
106 </body>

```

Outputs :



The screenshot shows a web browser window with the address bar displaying 'localhost/WEBDEV/WebTech\_Assignment/Question5/employeeForm.php'. The main heading of the page is 'Employee Form' in a large, bold, black serif font. Below the heading, there are four input fields, each preceded by a label and followed by a red asterisk indicating a required field:

- empid :  \*
- salary :  \*
- eName :  \*
- address :  \*

At the bottom of the form, there are two buttons: 'Submit' and 'Reset', both in a light gray box with black text.

Figure 5: An Employee Form

# Employee Form

empid :  \* Passed

salary :  \* Passed

eName :  \* Passed

address :  \* Passed

---

**Length of Employee Address = 8**

Figure 6: Test inputs that is PASSED

# Employee Form

empid :  \* not 8 characters

salary :  \* Passed

eName :  \* does not contain only characters.

address :  \* Passed

---

**Length of Employee Address = 8**

Figure 7: A FAILED Test case

## Employee Form

empid :  \* contains special characters

salary :  \* No. of Digits is not between 4-6.

eName :  \* does not contain only characters.

address :  \* Passed

Figure 8: A FAILED Test case

## Employee Form

empid :  \* Characters and digits are in inappropriate places

salary :  \* No. of Digits is not between 4-6.

eName :  \* First character is not Uppercase.

address :  \* Passed

---

**Length of Employee Address = 3**

Figure 9: A FAILED Test case

## Employee Form

empid :  \* Passed

salary :  \* Passed

eName :  \* Passed

address :  \* Passed

---

**Length of Employee Address = 10**

Figure 10: One more testcase that is PASSED

## Employee Form

empid :  \* This field is empty

salary :  \* This field is empty

eName :  \* This field is empty

address :  \* This field is empty

---

**Length of Employee Address = 0**

Figure 11: Submitting Empty Form - FAILED