ESSAY

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No ....
Date ....

a). Jelaskan perbedaan antara server-side dan client side
Server-side : bahasa pemrograman yang pengolahannya dilakukan dalam
server yang telah terintegrasi oleh web engine
Client-side : bahasa pemrograman yang pengolahanrya dilakukan di
sisi Client , yaitu web browser . (it-jvrnal.com)

b). Apa itu PHP?
PHP: Hypertext Preprocessor adalah scripting language yang digunakan pada
Pengembangan web (wikipedia)

c). Jelaskan kegunaan PHP pada aplikasi berbasis web !
Kegunaan PHP yaitu untuk membuat website dinamis tergantung
sumber. website dinamis dapat menyimpan data ke dalam database
membuat halaman yang berubah-ubah sesuai input dari user, memproses
form. (alan.co.id)

d). Jelaskan perbedaan method GET dan POST !
- POST akan mengirimkan data atau nilai langsung ke action untuk ditampung
tanpa menampilkan pada URL. GET memampilkan data/nilai pada URL
dan ditampung pada action
- Penulisan POST = $_POST. GET = $_GET
- Data yang dikirim tidak terbatas pada metode POST, sedangkan GET
maksimal 2047 karakter.
(dumet school . com)

a. Method GET

```html
    <title>Kalkulator - 1301162765</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" in
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JSt
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-Jj
</head>
<body>
    <h1 class="text-center" style="margin:50px;">Kalkulator</h1>
    <div class="container d-flex justify-content-sm-center align-items-center">
        <form action="hitung_nim.php" method="get">
            <div class="form-group row">
                <div class="col-sm-5 ">
                    <input type="text" class="form-control" name="angka1" placeholder="">
                </div>
                <div class="col-sm-2 ">
                    <select   class="form-control" name="ops">
                        <option value="+">+</option>
                        <option value="-">-</option>
                        <option value="/">/</option>
                        <option value="x">X</option>
                    </select>
                </div>
                <div class="col-sm-5 ">
                    <input type="text" class="form-control" name="angka2" placeholder="">
                </div>
            </div>
            <div class="form-group row">
                <div class="col-sm-5"></div>
                <button class="col-sm-2 btn btn-primary" type="submit">Hitung</button>
            </div>
        </form>
    </div>
</body>
</html>
```

```php
<?php
    $angka1 = $_GET["angka1"];
    $angka2 = $_GET["angka2"];
    $ops = $_GET["ops"];
    if($ops == "+"){
        $hasil = $angka1 + $angka2;
    };
    if($ops == "-"){
        $hasil = $angka1 - $angka2;
    };
    if($ops == "/"){
        $hasil = $angka1 / $angka2;
    };
    if($ops == "x"){
        $hasil = $angka1 * $angka2;
    };
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Hitung - 1301162765</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" int
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQ
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjS
</head>
<body>
    <h1 class="text-center" style="margin:50px;">Hasil</h1>
    <div class="container d-flex justify-content-sm-center align-items-center">
        <h4><?php echo $angka1.$ops.$angka2."=".$hasil ?></h6>
    </div>
```

Kalkulator

13 | + ▾ | 12

Hitung

Hasil

13+12=25

b. Method POST

```html
<body>
    <h1 class="text-center" style="margin:50px;">INPUT NILAI</h1>
    <div class="container d-flex justify-content-sm-center align-items-center">
        <form action="show_nim.php" method="post">
            <div class="form-group row">
                <label class="col-sm-2 col-form-label">NIM</label>
                <div class="col-sm-10 ">
                    <input type="text" class="form-control" name="nim" placeholder="NIM">
                </div>
            </div>
            <div class="form-group row">
                <label class="col-sm-2 col-form-label">UTS</label>
                <div class="col-sm-10 ">
                    <input type="text" class="form-control" name="uts" placeholder="UTS">
                </div>
            </div>
            <div class="form-group row">
                <label class="col-sm-2 col-form-label">UAS</label>
                <div class="col-sm-10 ">
                    <input type="text" class="form-control" name="uas" placeholder="UAS">
                </div>
            </div>
            <div class="form-group row">
                <label class="col-sm-2 col-form-label">Kuis</label>
                <div class="col-sm-10">
                    <input type="text" class="form-control" name="kuis" placeholder="Kuis">
                </div>
            </div>
            <div class="form-group row">
                <label class="col-sm-2 col-form-label">Tubes</label>
                <div class="col-sm-10">
                    <input type="text" class="form-control" name="tubes" placeholder="Tubes">
                </div>
            </div>
            <div class="form-group row">
                <div class="col-sm-5"></div>
                <button class="col-sm-3 btn btn-primary" type="submit">Input</button>
            </div>
        </form>
    </div>
```

```php
<?php

$uts = $_POST['uts'];
$uas = $_POST['uas'];
$kuis = $_POST['kuis'];
$tubes = $_POST['tubes'];

$nilai = $uts*0.25 + $uas*0.25 + $kuis*0.15 + $tubes*0.35;

function index($nilai){
    if($nilai>80 && $nilai<=100){
        echo "A";
    }else if($nilai>70 && $nilai<=80){
        echo "AB";
    }else if($nilai>60 && $nilai<=70){
        echo  "B";
    }else if($nilai>50 && $nilai<=60){
        echo  "C";
    }else if($nilai>40 && $nilai<=50){
        echo  "D";
    }else{
        echo  "E";
    };
}
?>
```

```
        <title>Rekap Nilai - 1301162765></title>
        <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.
        <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Dz00
        <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integr
        <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity-
</head>
<body>
    <h1 class="text-center" style="margin:50px;">REKAP NILAI - <?php echo $_POST['nim'] ?></h1>
    <div class="container d-flex justify-content-sm-center align-items-center">

        <table class="table table-bordered">
            <tr>
                <th>UTS</th>
                <th>UAS</th>
                <th>Kuis</th>
                <th>Tubes</th>
                <th>Total Nilai</th>
                <th>Index</th>
            <tr>
                <td><?php echo $_POST['uts'] ?></td>
                <td><?php echo $_POST['uas'] ?></td>
                <td><?php echo $_POST['kuis'] ?></td>
                <td><?php echo $_POST['tubes'] ?></td>
                <td><?php echo $nilai?></td>
                <td><?php index($nilai) ?></td>
            </tr>
        </table>
    </div>
</body>
</html>
```

INPUT NILAI

NIM	1301162765
UTS	75
UAS	90
Kuis	60
Tubes	50

Input

REKAP NILAI - 1301162765

UTS	UAS	Kuis	Tubes	Total Nilai	Index
75	90	60	50	67.75	B