

Berikut adalah **penyelesaian lengkap bagian 8.4 Prosedur Praktikum** dari Modul 8 (String) yang ada di file PDF. Saya akan mengerjakan seluruh soal, memberikan kode PHP, output, serta penjelasan langkah-langkahnya:

◆ 1. Mengubah Kapital

Soal:

Ubah string 'Bapak Presiden Joko Widodo' menjadi 'BAPAK PRESIDEN JOKO WIDODO'.

Kode:

```
<?php
$text = 'Bapak Presiden Joko Widodo';
$uppercaseText = strtoupper($text);
echo $uppercaseText;
?>
```

Output:

BAPAK PRESIDEN JOKO WIDODO

Penjelasan:

- Fungsi `strtoupper()` digunakan untuk mengubah semua huruf dalam string menjadi huruf kapital.

◆ 2. Memotong String

Soal:

Pisahkan 'Program Studi.Teknik.Informatika.UIN Maliki Malang' berdasarkan karakter titik (.) menjadi array.

Kode:

```
<?php
$str = 'Program Studi.Teknik.Informatika.UIN Maliki Malang';
$result = explode('.', $str);
print_r($result);
?>
```

Output:

```
Array
(
    [0] => Program Studi
```

[1] => Teknik

[2] => Informatika

[3] => UIN Maliki Malang

)

Penjelasan:

- Fungsi explode(delimiter, string) memisahkan string berdasarkan delimiter (pemisah), dalam hal ini tanda titik ..

◆ 3. Posisi String

Kode yang diminta:

```
<?php
$numberedString = "1234567890123456789012345678901234567890";

$fivePos = strpos($numberedString, "5");
echo "The position of 5 in our string was $fivePos";

$fivePos2 = strpos($numberedString, "5", $fivePos + 1);
echo "<br>The position of the second 5 was $fivePos2";
?>
```

a. Apa maksud dari \$fivePos + 1?

- Artinya pencarian karakter "5" berikutnya dimulai dari posisi setelah posisi pertama ditemukan.

b. Versi tanpa strpos:

```
<?php
$numberedString = "1234567890123456789012345678901234567890";

$first = null;
$second = null;
$count = 0;

for ($i = 0; $i < strlen($numberedString); $i++) {
    if ($numberedString[$i] === "5") {
```

```

$count++;
if ($count === 1) $first = $i;
if ($count === 2) {
    $second = $i;
    break;
}
}
}

echo "The position of 5 in our string was $first<br>";
echo "The position of the second 5 was $second";
?>

```

Output:

The position of 5 in our string was 4

The position of the second 5 was 14

Penjelasan:

- Menggunakan loop untuk mencari indeks karakter 5 pertama dan kedua tanpa strpos.

◆ 4. Mengganti String (Versi 1)

Kode:

```

<?php
$rawstring = "Welcome Birmingham parents. Your replaceme is a pleasure to have!";

$malestr = str_replace("replaceme", "son", $rawstring);
$femalestr = str_replace("replaceme", "daughter", $rawstring);

echo "Son: ". $malestr . "<br>";
echo "Daughter: ". $femalestr;
?>

```

Output:

Son: Welcome Birmingham parents. Your son is a pleasure to have!

Daughter: Welcome Birmingham parents. Your daughter is a pleasure to have!

Penjelasan:

- `str_replace()` mengganti kata replaceme dengan son atau daughter.

◆ **5. Mengganti String (Versi 2)**

Kode:

```
<?php
$rawstring = "Welcome Birmingham parent! <br>
Your offspring is a pleasure to have!
We believe pronoun is learning a lot.<br>
The faculty simple adores pronoun2 and you
can often hear them say \"Attah sex!\"<br>";

$placeholders = array('offspring', 'pronoun', 'pronoun2', 'sex');
$malevals = array('son', 'he', 'him', 'boy');
$femalevals = array('daughter', 'she', 'her', 'girl');

$malestr = str_replace($placeholders, $malevals, $rawstring);
$femalestr = str_replace($placeholders, $femalevals, $rawstring);

echo "Son: ". $malestr . "<br>";
echo "Daughter: ". $femalestr;
?>
```

Output (disingkat):

Son: Welcome Birmingham parent!

Your son is a pleasure to have!

We believe he is learning a lot.

...

Attah boy!

Daughter: Welcome Birmingham parent!

Your daughter is a pleasure to have!

We believe she is learning a lot.

...

Attah girl!

Penjelasan:

- `str_replace()` mengganti semua placeholder dengan padanan untuk jenis kelamin laki-laki dan perempuan.
 - Array pertama (`$placeholders`) diganti sesuai urutan array kedua.
-

◆ **6. Memotong String**

Kode:

```
<?php
$someWords = "Please don't blow me to pieces.";
$wordChunks = explode(" ", $someWords);

for($i = 0; $i < count($wordChunks); $i++){
    echo "Piece $i = $wordChunks[$i] <br>";
}
?>
```

Output:

Piece 0 = Please

Piece 1 = don't

Piece 2 = blow

Piece 3 = me

Piece 4 = to

Piece 5 = pieces.

Penjelasan:

- `explode(" ", $someWords)` membagi kalimat menjadi potongan-potongan kata berdasarkan spasi.
 - Baris keempat (`for`) mencetak setiap kata dari array `wordChunks` satu per satu.
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Jika kamu butuh file .php atau tampilannya dalam bentuk HTML lengkap, bisa saya bantu buat juga. Semoga membantu untuk menyelesaikan praktikum Modul 8!