

FILTERING TEST

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1. Hasil

```
let a = 12;
let i = 0;
for (i = 0; i < 5; i++) {
  console.log(a);
  a = a + 12;
}
```

2. Hasil

```
const input = prompt("Masukkan angka : ");

let i;
for (i = 0; i < input; i++) {

  if (i % 3 == 0 && i % 4 !== 0) {
    console.log("code");
  } else
  if (i % 4 == 0 && i % 3 !== 0) {
    console.log("academy");
  } else
  if (i % 3 == 0 && i % 4 == 0) {
    console.log("code.academy");
  } else {
    console.log(i);
  }
}
```

3. Hasil

```
<?php
$i = 0;
$j = 0;
for ($i = 0; $i < 5; $i++) {
  for ($j = 1; $j <= $i + 1 ; $j++) {
    echo " " . ($i + $j);
  }
  echo "" . '<br>';
}
```

4. Hasil

a. Hasil

```
<?php
```

```
for ($i = 1; $i < 6; $i++) {  
    for ($j = 1; $j <= $i ; $j++) {  
        echo " " . ($i);  
    }  
    echo "" . '<br>';  
}
```

b. Hasil

```
<?php
```

```
for ($i = 0; $i < 6; $i++) {  
    for ($j = 1; $j <= $i; $j++) {  
        echo " " . ($i);  
    }  
    echo "" . '<br>';  
}
```

c. Hasil

```
?php
```

```
i = 0;  
j = 0;  
or ($i = 0; $i < 6; $i++) {  
    for ($j = 1; $j <= $i ; $j++) {  
        echo " " . ($i - 1);  
    }  
    echo "" . '<br>';  
}
```

d. Hasil

```
<?php
```

```
// output A
```

```
$i = 0;  
$j = 0;  
for ($i = 1; $i < 6; $i++) {  
    for ($j = 1; $j <= 6 ; $j++) {  
        echo " " . ($i);  
    }  
    echo "" . '<br>';  
}
```

5. Hasil

Y < X	X	Y
10 < 31	31	10
20 < 32	32	20
40 < 33	33	40

6. Hasil

```
<?php

// pertumbuhan penduduk
// $penduduk = 30000;
$jumlahPenduduk = 30000;
$jumlahTahun = 1;
$totalPenambahan = 0;

while ($totalPenambahan <= 100000) {
    $totalPenambahan += $jumlahPenduduk + 0.3 * $jumlahPenduduk;
    // $jumlahPenduduk += $totalPenambahan;
    $jumlahTahun++;
    echo $totalPenambahan . '<br>';
}
```

7. Hasil

Table A	Table B	Relasi
Jobs	Region	No-relation (contoh)
Regions	Countries	Many-to-one
Departments	Locations	Many-to-one
Employees	Departments	Many-to-one
Jobs	Employees	One-to-many
Departments	Dependents	No-relation
Countries	Locations	One-to-many

8. Hasil

```
SELECT * from employees WHERE salary > 9000
```

9. Hasil

```
SELECT *, MAX(salary) from employees
```

10. Hasil

```
SELECT *, MIN(salary) from employees WHERE job_id = 9
```

11. Hasil

```
SELECT employees.first_name,
departements.departement_name FROM employees INNER JOIN
```

```
departements ON employees.departement_id =  
departements.departement_id
```

12. Hasil

```
SELECT departements.departement_name,  
COUNT(employees.departement_id) FROM employees INNER  
JOIN departements ON employees.departement_id =  
departements.departement_id
```