

LAPORAN PRAKTIKUM 4
Pemograman Berorientasi Obyek



Oleh :

ANANDA PUTRI R (21091397046)

PROGRAM STUDI D4 MANAJEMEN INFORMATIKA

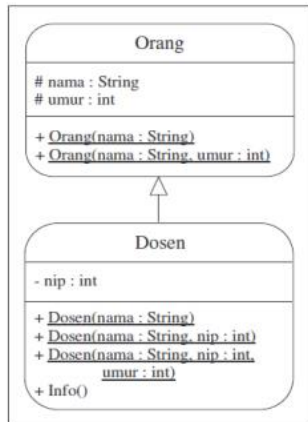
FAKULTAS VOKASI

UNIVERSITAS NEGERI SURABAYA

2022

Praktikum 4 PBO

1. Buatlah Program berdasarkan UML dibawah ini



Source Code

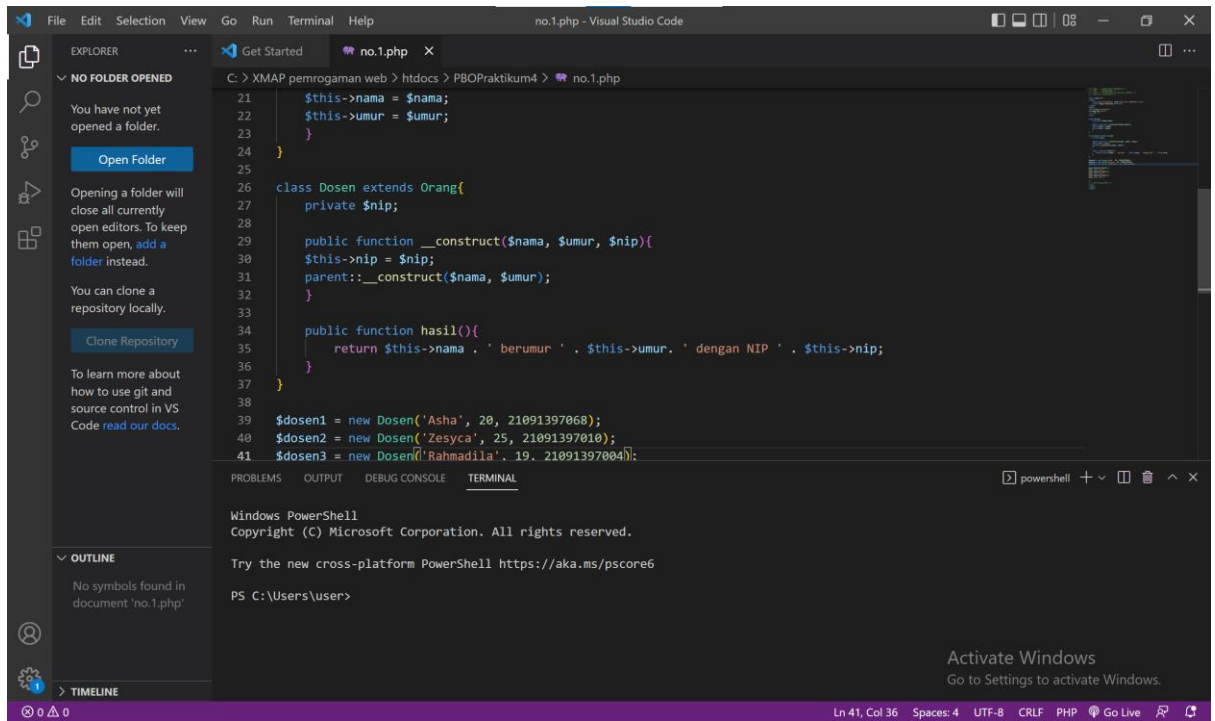


```
no.1.php - Visual Studio Code
File Edit Selection View Go Run Terminal Help
no.1.php x
C:\> XMAP pemrograman web > htdocs > PBOPraktikum4 > no.1.php
1 <!-- Nama : Ananda Putri Rahmadani-->
2 <!-- NIM : 21091397046-->
3 <!-- Kelas : D4 Manajemen Informatika (2021B) -->
4 <!-- Soal NO 1 Praktikum 4-->
5
6 <html lang="en">
7 <head>
8 <link rel="stylesheet" type="text/css" href="No 1.css">
9 <title>Tugas Praktikum 4</title>
10 </head>
11 <body>
12 <div class="container">
13 <h2>Soal NO 1</h2>
14 <!-- PHP -->
15 <?php
16
17 class Orang{
18     protected $nama,$umur;
19
20     public function __construct($nama,$umur){
21         $this->nama = $nama;
```

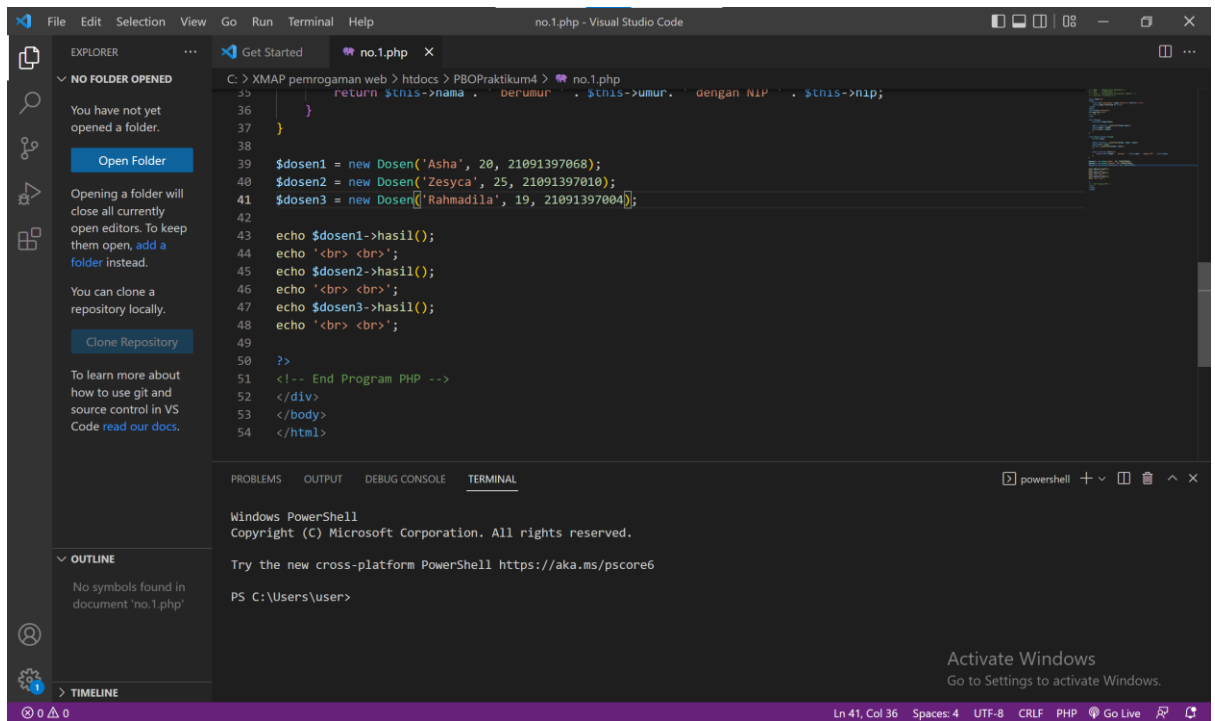
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\user>

Activate Windows
Go to Settings to activate Windows.

Ln 41, Col 36 Spaces: 4 UTF-8 CRLF PHP Go Live



CSS



Output

Soal NO 1

Asha berumur 20 dengan NIP 21091397068

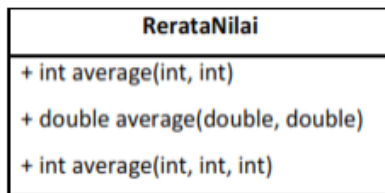
Zesyca berumur 25 dengan NIP 21091397010

Rahmadila berumur 19 dengan NIP 21091397004

Analisis

Menggunakan kata kunci super di konstruktor dan method, pada program tersebut masing-masing kita tambahkan konstruktor dengan paramaternya.

2. Buatlah Program berdasarkan UML dibawah ini



Source Code

PHP

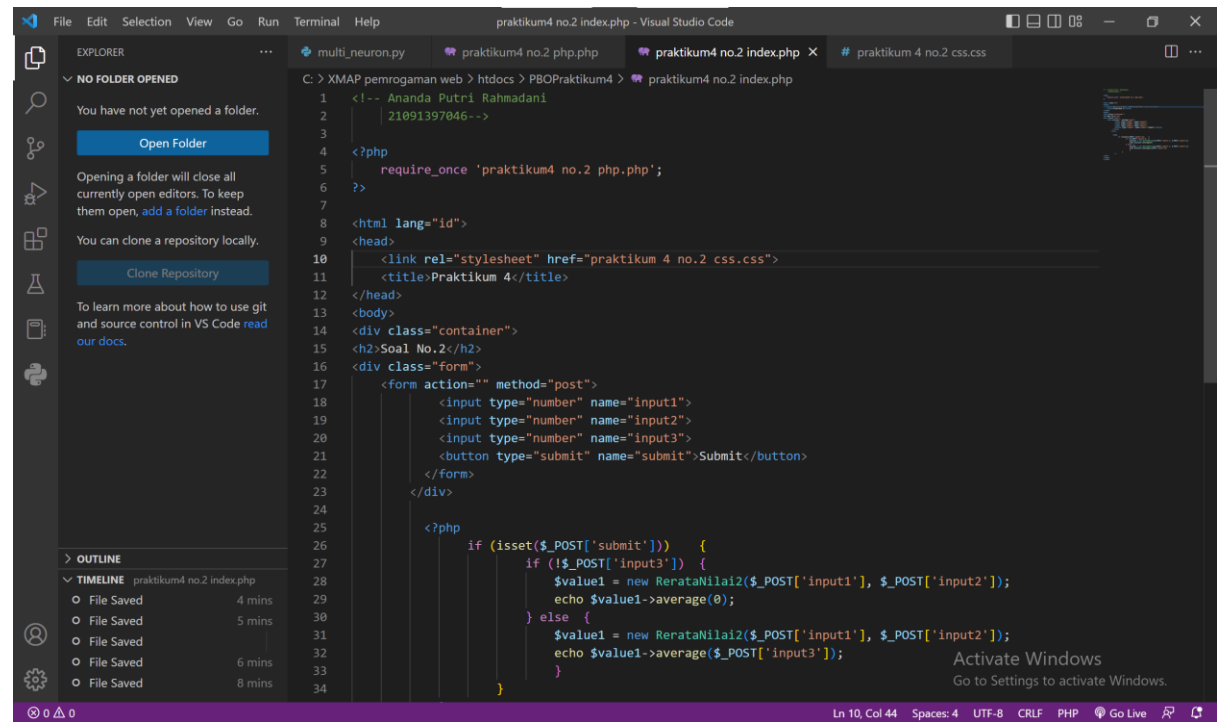
```
File Edit Selection View Go Run Terminal Help
praktikum4 no.2.php - Visual Studio Code

EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can clone a repository locally.
Clone Repository
To learn more about how to use git and source control in VS Code read our docs.

OUTLINE
praktikum4 no.2.php.php
File Saved 5 mins

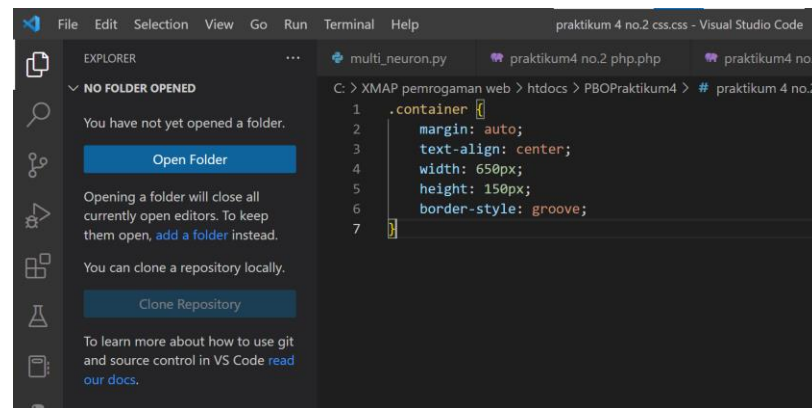
multi_neuron.py praktikum4 no.2.php.php praktikum4 no.2 index.php praktikum 4 no.2 css.css
C: > XMAP pemrograman web > htdocs > PBOPraktikum4 > praktikum4 no.2.php.php
1 <!-- Ananda Putri Rahmadani - 21091397046 -->
2
3
4
5 <?php
6 class RerataNilai {
7     protected $value, $value2;
8     public function __construct($value, $value2){
9         $this->value = $value;
10        $this->value2 = $value2;
11    }
12
13    public function average($value3 = 0){
14        if ($value3 == 0) {
15            $str = $this->value . ' + ' . $this->value2 . ' / 2 = ';
16            return $str . ($this->value += $this->value2 ) / 2;
17        } else {
18            $str = '(' . $this->value . ' + ' . $this->value2 . ' + ' . $this->value2 . ' ) / 3 = ';
19            return $str . ($this->value += $this->value2 += $value3 ) / 3;
20        }
21    }
22 }
23
24
25 class RerataNilai2 extends RerataNilai{
26     public function __construct($value, $value2){
27         parent::__construct($value, $value2);
28     }
29
30     public function average($value3 = 0){
31         return parent::average($value3);
32     }
33 }
34
```

INDEX



```
1 <!-- Ananda Putri Rahmadani
2 21091397046-->
3
4 <?php
5     require_once 'praktikum4 no.2.php.php';
6 >?
7
8 <html lang="id">
9 <head>
10     <link rel="stylesheet" href="praktikum 4 no.2 css.css">
11     <title>Praktikum 4</title>
12 </head>
13 <body>
14     <div class="container">
15         <h2>Soal No.2</h2>
16         <div class="form">
17             <form action="" method="post">
18                 <input type="number" name="input1">
19                 <input type="number" name="input2">
20                 <input type="number" name="input3">
21                 <button type="submit" name="submit">Submit</button>
22             </form>
23         </div>
24
25         <?php
26             if (isset($_POST['submit'])) {
27                 if (!$_POST['input3']) {
28                     $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
29                     echo $value1->average(0);
30                 } else {
31                     $value1 = new RerataNilai2($_POST['input1'], $_POST['input2']);
32                     echo $value1->average($_POST['input3']);
33                 }
34             }
```

CSS



```
1 .container {
2     margin: auto;
3     text-align: center;
4     width: 650px;
5     height: 150px;
6     border-style: groove;
7 }
```

OUTPUT

Soal No.2

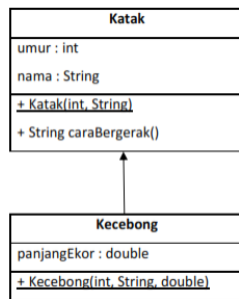
$(8 + 3 + 3) / 3 = 5.33333333333333$



Analisis

Diatas adalah program dengan nama method boleh Sama, Tapi Jumlah parameter mesti berbeda nilai yang di Return harus mempunyai tipe yang sama

3. Buatlah Program berdasarkan UML dibawah ini



Dan buat objek dengan karakteristik seperti tabel dibawah ini

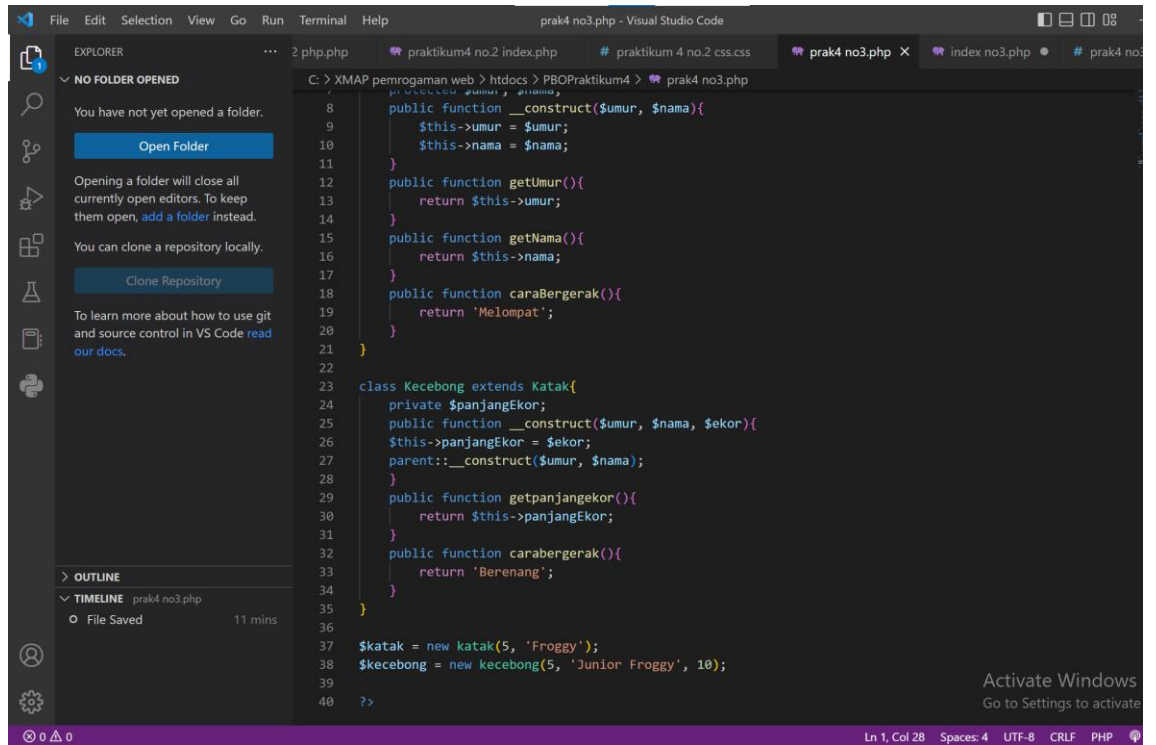
| Obyek | umur | nama | panjangEkor | caraBergerak |
|-------|------|-------------|-------------|--------------|
| O1 | 5 | Froggy | | melompat |
| O2 | 2 | Junior Frog | 10 | berenang |

Source Code

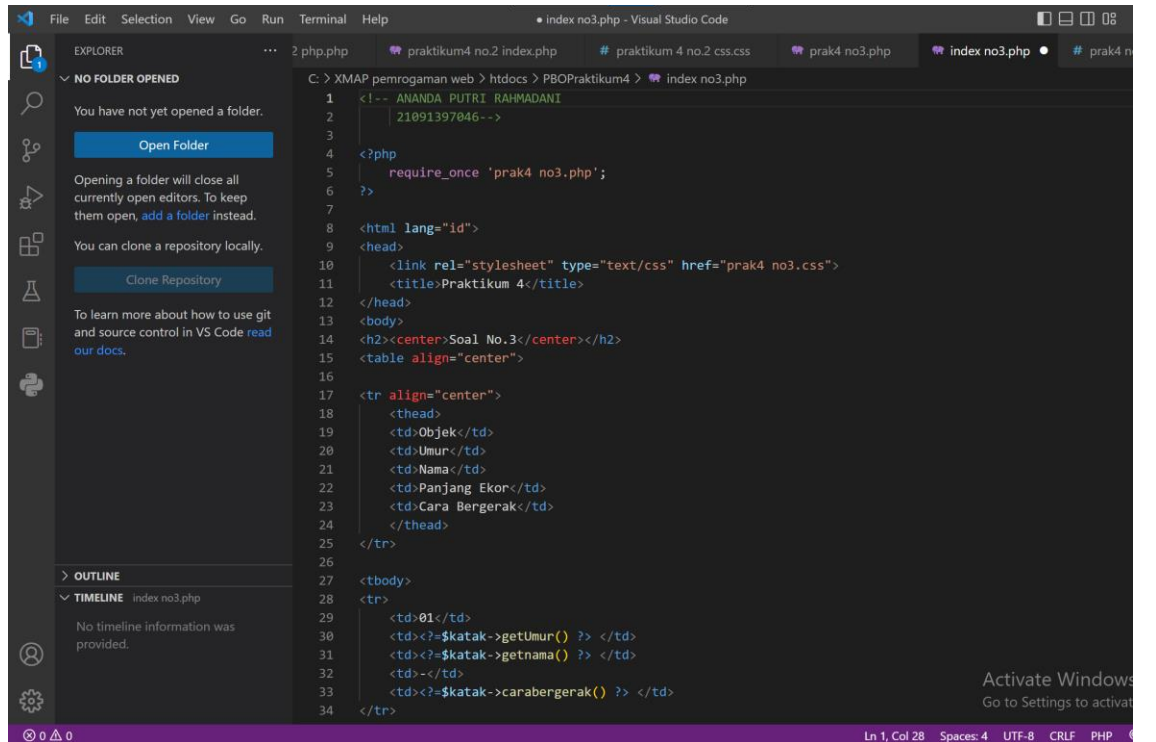


PHP

```
1 <!-- ANANDA PUTRI RAHMADANI -->
2 21091397046-->
3
4 <?php
5
6 class Katak{
7     protected $umur, $nama;
8     public function __construct($umur, $nama){
9         $this->umur = $umur;
10        $this->nama = $nama;
11    }
12    public function getUmur(){
13        return $this->umur;
14    }
15    public function getNama(){
16        return $this->nama;
17    }
18    public function caraBergerak(){
19        return 'Melompat';
20    }
21 }
22
23 class Kecebong extends Katak{
24     private $panjangEkor;
25     public function __construct($umur, $nama, $sekor){
26         $this->panjangEkor = $sekor;
27         parent::__construct($umur, $nama);
28     }
29     public function getpanjangekor(){
30         return $this->panjangEkor;
31     }
32     public function carabergerak(){
33         return 'Berenang';
34     }
35 }
```



INDEX



```
File Edit Selection View Go Run Terminal Help
index no3.php - Visual Studio Code

EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can clone a repository locally.
Clone Repository
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OUTLINE
TIMELINE index no3.php
No timeline information was provided.

C: > XMAP pemrograman web > htdocs > PBOPraktikum4 > index no3.php
16
17 <tr align="center">
18 <thead>
19 <td>Objek</td>
20 <td>Umur</td>
21 <td>Nama</td>
22 <td>Panjang Ekor</td>
23 <td>Cara Bergerak</td>
24 </thead>
25 </tr>
26
27 <tbody>
28 <tr>
29 <td>01</td>
30 <td><?=$katak->getUmur() ?> </td>
31 <td><?=$katak->getNama() ?> </td>
32 <td></td>
33 <td><?=$katak->carabergarak() ?> </td>
34 </tr>
35
36 <tr>
37 <td>02</td>
38 <td><?=$kecebong->getUmur() ?></td>
39 <td><?=$kecebong->getNama() ?></td>
40 <td><?=$kecebong->getpanjangekor() ?></td>
41 <td><?=$kecebong->carabergarak() ?></td>
42 </tr>
43 </tbody>
44
45 </table>
46 </body>
47 </html>

Activate Window
Go to Settings to activate
```

CSS

```
File Edit Selection View Go Run Terminal Help
prak4 no3.css - Visual Studio Code

EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can clone a repository locally.
Clone Repository
To learn more about how to use git and source control in VS Code read our docs.

C: > XMAP pemrograman web > htdocs > PBOPraktikum4 > # prak4 no3.css > h2
1 h2{
2   margin: auto;
3   text-align: center;
4   padding-bottom: 10px;
5 }
6
7 .table{
8   margin: auto;
9   font-family: sans-serif;
10  border-collapse: collapse;
11 }
12
13 .table, td{
14   border: 1px solid;
15   padding: 8px 10px;
16 }
17
18 tthead{
19   font-weight: bold;
20 }
```


Output

Soal No.3

| Objek | Umur | Nama | Panjang Ekor | Cara Bergerak |
|-------|------|---------------|--------------|---------------|
| 01 | 5 | Froggy | - | Melompat |
| 02 | 5 | Junior Froggy | 10 | Berenang |

Analisis

keyword super tidak bisa digunakan secara langsung didalam method static seperti pada method main, jadi harus di panggil pada method void atau return terlebih dahulu lalu panggil pada method main/static.