

# IS113 Web Application Development I

Week 9 In-Class notes

[ G10 ]

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# Part II – Classes & Objects

# webroot

```
webroot --
|
|-- is113
|   |
|   |-- week9
|       |
|       |-- house
|           |-- display_1a.php
|           |-- display_1b.php
|           |-- display_2a.php
|           |-- display_2b.php
|           |-- House.php
```

# Create a Class

House
<ul style="list-style-type: none"><li>- \$type</li><li>- \$no_of_bedroom</li><li>- \$size</li><li>- \$location</li><li>- \$price</li></ul>
<ul style="list-style-type: none"><li>+ getType( )</li><li>+ getBedroom( )</li><li>+ getSize()</li><li>+ getLocation()</li><li>+ setPrice()</li><li>+ PaymentPerMonth(\$no_of_years)</li><li>+ CostPerSqFeet( )</li></ul>

← **Class Name**

**Properties**

**Methods**

House.php



[https://www.freepik.com/free-vector/set-houses-with-trees-flat-style\\_12872841.htm#page=1&query=house&position=5](https://www.freepik.com/free-vector/set-houses-with-trees-flat-style_12872841.htm#page=1&query=house&position=5)

# Create an instance of the Class – hardcode data

display\_1a.php

## 1. Create an instance of the class House with the following values

- Type : HDB
- No of Bedroom : 4
- Size : 1010 sq feet
- Location : Montreal Drive

## 2. Set the Price

- Set the price to \$360150

## 3. Display the following:

House 1 :

Type: HDB

Size: 1010

Location: Montreal Drive

Price:

After set price ...

Price: \$360150

Payment Per Month over 20 years : \$1500.625

Price per sq feet \$356.5842



# Create an instance of the Class – using data from Array

display\_1b.php

1. Create an instance of the class House with the values from the array.

```
$data = ["HDB", 4, "1010",  
        "Montreal Drive"];
```

2. Set the Prices

- Set the price to \$360150

3. Display the following:

House 1 :

Type: HDB

Size: 1010

Location: Montreal Drive

Price:

After set price ...

Price: \$360150

Payment Per Month over 20 years : \$1500.625

Price per sq feet \$356.5842



# Create an instance of the Class – using data from Associative Array

display\_1b.php

1. Create an instance of the class House with the values from the associative array.

```
$data = [  
    "type" => "HDB",  
    "no_of_bedroom" => 4,  
    "size" => "1010",  
    "location" => "Montreal Drive"];
```

2. Set the Price to \$360150

3. Display the following:

House 1 :

Type: HDB

Size: 1010

Location: Montreal Drive

Price:

After set price ...

Price: \$360150

Payment Per Month over 20 years : \$1500.625

Price per sq feet \$356.5842



# Create an instance of the Class – using data from an Array

display\_2a.php

## 1. Create an indexed array of House Objects.

- Data provided from an array

```
$new_houses =
[["HDB", 4, "1010", "Montreal Drive"],
 ["HDB", 3, "870", "King George Avenue"],
 ["CONDO", 2, "590", "East Coast"],
 ["CONDO", 5, "1400", "Yishun Park"],
 ["LANDED", 4, "2000", "University Road"]];
```

## 2. Set the Prices

\$450000, \$650000, \$1250000, \$800700,  
\$20005000

## 3. Display the following:

Type	Bedroom	Size	Location	Price	Cost Sq Feet
HDB	1010	4	1010	0	0.00
HDB	870	3	870	0	0.00
CONDO	590	2	590	0	0.00
CONDO	1400	5	1400	0	0.00
LANDED	2000	4	2000	0	0.00

Type	Bedroom	Size	Location	Price	Cost Sq Feet
HDB	1010	4	1010	450,000	112,500.00
HDB	870	3	870	650,000	216,666.67
CONDO	590	2	590	1,250,000	625,000.00
CONDO	1400	5	1400	800,700	160,140.00
LANDED	2000	4	2000	20,005,000	5,001,250.00





# Create an instance of the Class – using data from an Array

display\_2b.php

## 1. Create an indexed array of House Objects.

- Data provided from an associative array

```
$new_houses = [
    "01" => ["HDB", 4, "1010", "Montreal Drive"],
    "02" => ["HDB", 3, "870", "King George Avenue"],
    "03" => ["CONDO", 2, "590", "East Coast"],
    "04" => ["CONDO", 5, "1400", "Yishun Park"],
    "05" => ["LANDED", 4, "2000", "University Road"]];
```

## 2. Set the Prices

\$450000, \$650000, \$1250000, \$800700,  
\$20005000



## 3. Display the following:

Type	Bedroom	Size	Location	Price	Cost Sq Feet
HDB	1010	4	1010	0	0.00
HDB	870	3	870	0	0.00
CONDO	590	2	590	0	0.00
CONDO	1400	5	1400	0	0.00
LANDED	2000	4	2000	0	0.00

Type	Bedroom	Size	Location	Price	Cost Sq Feet
HDB	1010	4	1010	450,000	112,500.00
HDB	870	3	870	650,000	216,666.67
CONDO	590	2	590	1,250,000	625,000.00
CONDO	1400	5	1400	800,700	160,140.00
LANDED	2000	4	2000	20,005,000	5,001,250.00