**Lesson03 Decimal & Currency & Percent Pipe**

**Notes:-**

**Decimal Pipe**

**1-Decimal Pipe is an angular Pipe API and belongs to Common Module.**

**2-Decimal Pipe is used to format a number as decimal number according to locale rules. It uses number keyword with pipe operator. Find the syntax.**

**number\_expression | number[:digitInfo]**

**Finally we get a decimal number as text. Find the description.**

**number\_expression: An angular expression that will give output a number.**

**number : A pipe keyword that is used with pipe operator.**

**digitInfo : It defines number format.**

**3-Now we will understand how to use digit Info. The syntax for digit Info is as follows.**

**{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}**

**Find the description.**

**minIntegerDigits : Minimum number of integer digits. Default is 1.**

**minFractionDigits : Minimum number of fraction digits. Default is 0.**

**maxFractionDigits : Maximum number of fraction digits. Default is 3.**

**Now find some sample examples.**

**1-Using default format:**

**minIntegerDigits = 1**

**minFractionDigits = 0**

**maxFractionDigits = 3**

**The shape of the result is:-**

**(Range of decimal between 0 -> 3, and for the integer minimum >= 1)**

**12.638**

**Example:-**

**1-On the component.html we put the following code**

<div>

//min Integer = 1, range decimal 1 🡪 3 12.638

<p> {{num1 | number}} </p>

//min Integer = 3, range decimal 2 -> 5 012.63847

<p> {{num1 | number:'3.2-5'}} </p>

//min Integer = 3, range decimal 2 -> 5 000.50

<p> {{num2 | number:'3.2-5'}} </p>

//min Integer = 1, range decimal 3 -> 5 6.319234

<p> {{num1 \* num2 | number:'1.3-6'}} </p>

</div>

**2-on the component.ts we put the following code**

export class Shape01Component implements OnInit {

num1: number = 12.638467846;

num2: number = 0.5;

**Example:**

**{{num1 | number:'3.2-5'}}**

**(Range of decimal between 2 -> 5, and for the integer minimum >= 3)**

**012.63847**

**Percent Pipe**

**Angular Percent Pipe is an angular Pipe API that formats a number as a percentage according to locale rules. It belongs to Common Module. Find the syntax.**

**Default Syntax: (percent \* 100) %**

**number\_expression | percent[:digitInfo]**

**1-on the html page we put the following code**

<h3>Percent Pipe</h3>

<div>

//min integer = 2 , min decimal = 0 250% 2.5\*100

<p> {{num1 | percent}} </p>

//min integer = 2 , min decimal = 2 250.00% 2.5\*100 = 250.00%

<p> {{num1 | percent:'2.2-5'}} </p>

//min integer = 1 , min decimal = 2 50.00% 0.5\*100 = 50.00%

<p> {{num2 | percent:'1.2-5'}} </p>

//min integer = 1 , min decimal = 2 125.00%

<p> {{num1 \* num2 | percent:'1.2-3'}} </p>

</div>

**2-on the code behind , we put the following code**

num1: number = 2.5;

num2: number = 0.5;

**Currency Pipe**

**1-Currency Pipe is an angular Pipe API that formats a number as currency using locale rules.**

**2-It belongs to CommonModule. CurrencyPipe uses currency keyword with pipe operator to format a number into currency format. Find the syntax.**

**number\_expression | currency[:currencyCode[:symbolDisplay[:digitInfo]]]**

**Find the description.**

**number\_expression : An angular expression that will give output a number.**

**currency: A pipe keyword that is used with pipe operator. It formats a number into currency format.**

**currencyCode: This is the currency code such as INR for Indian rupee, USD for US dollar. Default is USD.**

**symbolDisplay: Default is false. But if we assign true then it will display currency symbol such as $ for dollar.**

**digitInfo: It defines a currency format. We have described the use of digitInfo in DecimalPipe section. It is used with following syntax.**

**{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}**

**1-Using default format:   
currencyCode = USD   
symbolDisplay = false   
minIntegerDigits = 1   
minFractionDigits = 0   
maxFractionDigits = 3**

{{cur2 | currency:'USD':true:'2.2-4'}}

//on the code behind we set the following

cur2 = 0.25;

//The result will be as the following

Min integer = 2 , decimal range 2 🡪 4 , show symbol Dollar = true

$00.25

**Example:-**

<div>

<p> {{cur1 | currency:'INR':false}} </p>

<p> {{cur2 | currency:'INR':false:'1.2-4'}} </p>

<p> {{cur1 | currency}} </p>

<p> {{cur2 | currency:'USD':true:'2.2-4'}} </p>

</div>

//on the code behind we set the value of cur1 and cur2

cur1: number = 0.25;

cur2: number = 10.263782;

**The result will be as the following result**

**INR0.25**

**INR10.2638**

**USD0.25**

**$10.2638**