PHP web development 2019/2020

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#### many variables, type string

```
$cars1 = 'Volvo';
$cars2 = 'VW';
$cars3 = 'Fiat';
.....
$cars100 = 'Jeep';
```

#### one variable type array

```
$cars = ['Volvo',
          'VW',
          'Mercedes',
          'Fiat'];
echo $cars[0]; //Volvo
echo $cars[2]; //Mercedes
```



#### many variables type array

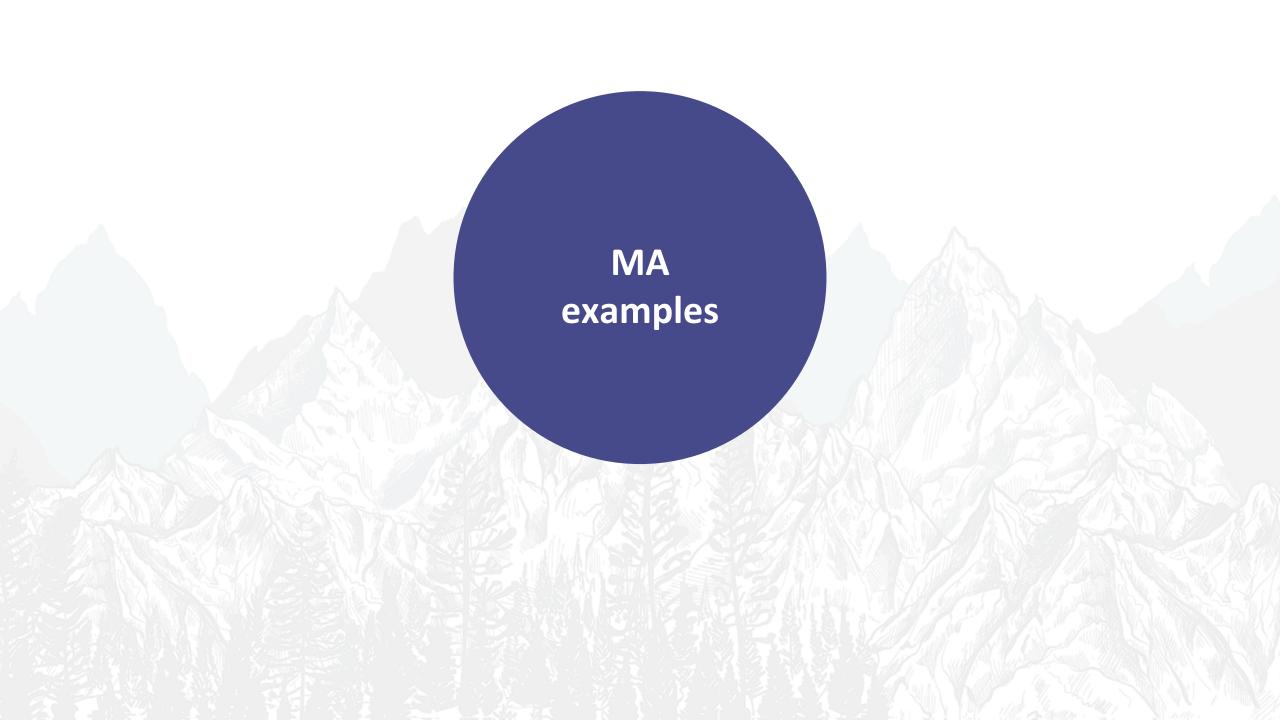
```
$car1 = ['brand' =>'Volvo', 'model'=>'s60', 'stock' => 10, 'sold' =>20, 'price' =>'50000'];
$car2 = ['brand' =>'VW', 'model'=>'polo', 'stock' => 8, 'sold' =>10, 'price' =>'20000'];
$car3 = ['brand' =>'Fiat', 'model'=>'uno', 'stock' => 10, 'sold' =>20, 'price' =>'20000'];
.......
$car100 = ['brand' =>'Jeep', 'model'=>' WRANGLER', 'stock' => 7, 'sold' =>3, 'price' =>'62000'];
```

#### one variable - multidimensional array





\$cars[0]['brand']		\$cars[1]['stock']	
	\$cars[2]['model']		\$cars[2]['brand']
\$cars[1]['price']		\$cars[0]['price']	



#### Multidimensional arrays - examples

multidimensional arrays
with different size of arrays as
elements
with string keys

```
$arr = ['name' => 'Gosho Petrov',
        'family_members' =>[
             'wife' => 'Pepa Petrova',
             'son' => 'Ivan Petrov',
             'daughter'=> 'Ceca Petrova',
             'dauther_boyfriend' => 'Pesho'
         'address' =>
                  'city' => 'Vratsa',
                   'street' => 'Kokiche',
                   'street_number' => 14,
```

#### Multidimensional arrays - examples

multidimensional arrays
with different size of arrays as
elements
with numeric keys

```
$arr = ['Gosho Petrov',
         ('wife' => 'Pepa Petrova',
         'son' => 'Ivan Petrov'
         'daughter'=> 'Ceca Petrova',
          'dauther_boyfriend' => 'Pesho'],
         'city' => 'Vratsa',
          'street' => 'Kokiche',
         'street_number' => 14,]
```



#### Task



Генерирайте двумерен масив MxN, с едни и същи стойности на елементите и го отпечатайте в таблица. За M=4, N=4; За M=4, N=6.

Резултатът трябва да има следния вид

3a M=4, N=4

1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1

1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1

3a M=4, N=6

# Task - step 1



#### Генериране елементите на масива

M=4, N=4 - масив с 4 елемента тип масив, всеки от тях с 4 елемента със стойност 1 M=4, N=6 - масив с 4 елемента тип масив, всеки от тях с 6 елемента със стойност 1

# Task - step 2



Отпечатване на масива/матрицата под формата на таблица.

```
echo '';
for ($p=0; $p<$m;$p++){
      echo '';//each row is an element of the MA
      for ($k=0; $k<n;$k++){}
             echo '';//each cell displays each element s of MA element value
      echo $arr[$p][$k];
      echo '';
   }//end inner for
   echo '';//close each row
}//end outer for
echo '';
```

#### Task





Когато стойностите на елементите на масива се получават

по някаква формула – тази формула трябва да работи за всички

Елементи на масива за произволна стойност на М и N !!!!!

#### **Learn to Search in Internet**



- The course assignments require to search in Internet
  - This is an important part of the learning process
  - Some exercises intentionally have no hints
- Learn to find solutions!
  - Software development includes everyday searching and learning
  - No excuses, just learn to study!







# Questions?



#### **Partners**















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