TUESDAY TASK ASSIGNMENT

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21MIS0332

1. Find products that have either "white" or "black" as a color option and are priced below 800.

```
>_MONGOSH

_id: 1,
    name: 'xPhone',
    price: 799,
    color: [
        'white',
        'black'
    ]
}
{
    _id: 4,
    name: 'SmartPad',
    price: 699,
    color: [
        'white',
        'orange',
        'gold',
        'gray'
    ]
}
{
    _id: 5,
    name: 'SmartPhone',
    price: 599,
    color: [
        'white',
        'orange',
        'gold',
        'gray'
}
```

2. select phone with screen size not greater than 9.5 and ram not in 4,8

3. select products with cpu power not less than 2.66 nor more than 3.66

4. select products with either white colour and storage not less than 128

```
>_MONGOSH
__id: 2,
    name: 'xTablet',
    price: 899,
    color: [
        'white',
        'black',
        'purple'
],
    storage: [
        128,
        25e,
        512
]
}
{
__id: 4,
    name: 'SmartPad',
    price: 699,
    color: [
        'white',
        'orange',
        'gold',
        'gray'
],
    storage: [
        128,
        256,
        1024
```

```
color: [
   'white',
   'orange',
   'gold',
   'gray'
],
storage: [
   128,
   256,
   1024
]

{
   id: 5,
   name: 'smartPhone',
   price: 599,
   color: [
    'white',
    'orange',
    'gold',
    'gray'
],
storage: [
   128,
   256
]
}
products > [
```

5. Price should be grater than either 799 or ram is greater than 12

```
{
    _id: 3,
    name: 'SmartTablet',
    price: 899,
    releaseDate: 2015-01-14T00:00:00.000Z,
    spec: {
        ram: 12,
            screen: 9.7,
            cpu: 3.66
     },
        color: [
            'blue'
        ],
        storage: [
            16,
            64,
            128
        ]
}
```

6. Find products that do not have "white" as a color and are priced below 900.

```
>_MONGOSH
 > db.products.find({$and:
  {color:
  {$nin:["white"]}},
  {price:
  {$lt:900}}
    name: 'SmartTablet',
    releaseDate: 2015-01-14T00:00:00.000Z,
      'blue'
products>
```

7. select products with either blue colour and storage not less than 128.

```
price: 899,
    color: [
        'blue'
    ]
}
{
    _id: 4,
    name: 'smartPad',
    price: 699,
    color: [
        'white',
        'orange',
        'gold',
        'gray'
    ]
}
{
    _id: 5,
    name: 'smartPhone',
    price: 599,
    color: [
        'white',
        'orange',
        'gold',
        'gray'
    ]
}
products>
```

8. Write a query to find a product whose cpu is greater than or equal to 2 without using "\$gte" .

```
    _id: 1,
    name: 'xPhone',
    spec: {
        cpu: 2.66
    }
}
{
    _id: 2,
    name: 'xTablet',
    spec: {
        cpu: 3.66
    }
}
{
    _id: 3,
    name: 'SmartTablet',
    spec: {
        cpu: 3.66
    }
}
products
```

9. Write a query to find a product whose colour is not black or white without using "\$nin".

10. print the name and date of product whose ram is neither 4 nor the product price is less than 799

11. print the names of products whose screen is either greater than 7 or color is white.

```
>_MONGOSH
> db.products.find({$or:
    {"spec.screen":
   {$gt:7}},
   {color:"white"}
 ]},
 name:1,
 price:1
   name: 'xPhone',
   name: 'SmartTablet',
  name: 'SmartPad',
```

```
_id: 3,
    name: 'SmartTablet',
    price: 899
}
{
    _id: 4,
    name: 'SmartPad',
    price: 699
}
{
    _id: 5,
    name: 'SmartPhone',
    price: 599
}
products>
```

12. print the name, screen size and color of products whose color has no gold in it.

```
_id: 2,
name: 'xTablet',
spec: {
    screen: 9.5
},
color: [
    'white',
    'black',
    'purple'
]
}
{
    _id: 3,
    name: 'SmartTablet',
    spec: {
        screen: 9.7
},
    color: [
        'blue'
]
}
products>
```