1: Print the name, screen size, and color of products whose color has no "gold" in it.

```
db.products1.find({
   color: { $not: { $eq: "gold" } }
}, {
   name: 1,
   "spec.screen": 1,
   color: 1,
   _id: 0
})
```

2: Print the names of products whose screen is either greater than 7 or color is "white".

```
db.products1.find({
   $or: [
      { price: 699 },
      { storage: 1024 }
   ]
}, {
   name: 1,
   price: 1,
   storage: 1,
   _id: 0
})
```

4: Find the product where CPU is not less than 3 and the releaseDate is not "2011-09-01" (ISODate).

```
db.products1.find({
   $and: [
      { "spec.cpu": { $gte: 3 } },
      { releaseDate: { $ne: new ISODate("2011-09-01") } }
   ]
})
```

5: Find products where no color is "blue" and no price is 899.

```
db.products1.find({
   $nor: [
      { color: "blue" },
      { price: 899 }
   ]
})
```

6: Price should be greater than either 799 or RAM is greater than 12

```
db.products1.find({
    $or: [
        { price: { $gt: 799 } },
        { "spec.ram": { $gt: 12 } }
    ]
})
```

7: Find products that do not have 'white' as a color and are priced below 800

```
db.products1.find({
    color: { $ne: "white" },
    price: { $lt: 800 }
})
```

8: Select products with either blue colour and storage not less than 128

```
db.products1.find({
    $or: [
        { color: "blue" },
        { storage: { $gte: 128 } }
    ]
})
```

9: Find all products that have "white" as a color and a CPU speed greater than the average CPU speed of all products.

```
db.products1.find({
    color: "white",
    "spec.cpu": { $gt: averageCpuSpeed }
})
```

10: Find products released in 2022 with a storage option of 256 or 512.

```
db.products1.find({
    releaseDate: {
        $gte: ISODate("2022-01-01"),
        $lt: ISODate("2023-01-01")
    },
    storage: { $in: [256, 512] }
})
```

11: Find products where the price is not equal to 799 or 899 and the screen size is less than 10.

TASK 2

```
db.products1.find({
    $nor: [
        { price: 799 },
        { price: 899 }
    ],
    "spec.screen": { $lt: 10 }
})
```

12: Find products where the color is not blue, green or red and the price is greater than or equal to 1000.

```
db.products1.find({
    color: { $nin: ["blue", "green", "red"] },
    price: { $gte: 1000 }
})
```

13: Select products where the release date is not in 2015, the RAM is not in 4, 8 and the price is not in 699, 899.

```
db.products1.find({
    $nor: [
        { releaseDate: { $gte: ISODate("2015-01-01"), $lt: ISODate("2016-01-01") } },
        { "spec.ram": { $in: [4, 8] } },
        { price: { $in: [699, 899] } }
    ]
})
```

14: Find products where the colour is black or white, the price is either 799 or 899, and the screen size is greater than 6.

```
db.products1.find({
    $and: [
        {
            $or: [
                { color: "black" },
                { color: "white" }
            ]
        },
        {
            $or: [
                { price: 799 },
                { price: 899 }
            ]
        },
        { "spec.screen": { $gt: 6 } }
    ]
```

TASK 2

```
})
```