ASSESMENT – 2

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Assumed Schema

```
{
 "name": "Product Name",
 "date": "ISODate('YYYY-MM-DD')",
 "ram": Number,
 "price": Number,
 "screen": Number,
 "color": "String",
 "storage": Number,
 "cpu": Number
}
```

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

```
db.products.find(
  {
   $nor: [
     { ram: 4 },
     { price: { $lt: 799 } }
   ]
  },
  { name: 1, date: 1, _id: 0 }
);
```

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

```
db.products.find(
  {
   $or: [
     { screen: { $gt: 7 } },
     { color: "white" }
   ]
  },
  { name: 1, _id: 0 }
);
```

3. **Print the name, screen size, and color of products whose color has no gold in it**

```
db.products.find(
 {
  color: { $ne: "gold" }
 },
 { name: 1, screen: 1, color: 1, _id: 0 }
);
```

4. **Find name, price, storage if price is 699 or storage is 1024**

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

5. **Find the product where CPU is not less than 3, not ISODate is ("2011-09-01")**

```
db.products.find(
 {
  cpu: { $not: { $lt: 3 } },
  date: { $ne: ISODate("2011-09-01") }
 }
);
```

6. **Find the product where no color is blue, no price is 899**

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

7. **Price should be greater than either 799 or RAM is greater than 12**

```
db.products.find(
 {
  $or: [
    { price: { $gt: 799 } },
```

```
    { ram: { $gt: 12 } }
   ]
  }
);
```

8. **Find products that do not have "white" as a color and are priced below 800**

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

9. **Find the name and storage of products with a screen size less than or equal to 6 and color is not black**

```
db.products.find(

 {

  screen: { $lte: 6 },

  color: { $ne: "black" }

 },

 { name: 1, storage: 1, _id: 0 }

);
```

10. **Print the name and price of products with RAM greater than 8 and either the color is red or the screen size is greater than 5**

```
db.products.find(
 {
  ram: { $gt: 8 },
  $or: [
   { color: "red" },
   { screen: { $gt: 5 } }
  ]
 },
 { name: 1, price: 1, _id: 0 }
);
```