a. Insert a new product into the database.

```
db.Products.insertOne({
  name: "Product Name",
  description: "Product Description",
  price: 29.99,
  category: "Electronics",
  stockQuantity: 100
})
```

Output:

```
{
  acknowledged: true,
  insertedId: ObjectId("64b228fb8050f20376310b37")
}
```

b. Update the stock quantity of a product when an order is placed or cancelled.

```
     db.Products.updateOne(
  { _id: ObjectId("64b2292c8050f20376310b39") },
  { $inc: { stockQuantity: -1 } }
)// For cancelling an order
```

Output:

```
     {
        acknowledged: true,
        insertedId: null,
        matchedCount: 1,
        modifiedCount: 1,
        upsertedCount: 0
     }
```

```
db.Products.updateOne(
  { _id: ObjectId("64b2290f8050f20376310b38") },
  { $inc: { stockQuantity: 1 } }
)
```

Output:

```
     {
```

```
            acknowledged: true,

            insertedId: null,

            matchedCount: 1,

            modifiedCount: 1,

            upsertedCount: 0

        }
```
c. Retrieve a list of products in a specific category, sorted by price.

```
    db.Products.find({ category: "Electronics" }).sort({ price: 1})
```
Output:
```
{
  _id: ObjectId("64b226ea8050f20376310b36"),
  name: 'Product Name',
  description: 'Product Description',
  price: 99.99,
  category: 'Electronics',
  stockQuantity: 10
}
{
  _id: ObjectId("64b228fb8050f20376310b37"),
  name: 'cooler',
  description: 'abcdfghsdfkgkm',
  price: 5000,
  category: 'Electronics',
  stockQuantity: 5
}
{
  _id: ObjectId("64b2290f8050f20376310b38"),
  name: 'Freeze',
  description: 'yuilrkjfdgsfdfj',
  price: 10000,
  category: 'Electronics',
  stockQuantity: 2
}
```

d. Search for products within a given price range and display only those with available stock.

```
        db.Products.find({
    price: { $gte: 50, $lte: 10000 },
    stockQuantity: { $gt: 0 }
  })
```
OutPut:
```
{
  _id: ObjectId("64b226ea8050f20376310b36"),
  name: 'Product Name',
  description: 'Product Description',
  price: 99.99,
  category: 'Electronics',
  stockQuantity: 10
}


{
  _id: ObjectId("64b228fb8050f20376310b37"),
  name: 'cooler',
  description: 'abcdfghsdfkgkm',
  price: 5000,
  category: 'Electronics',
  stockQuantity: 5
}
{
  _id: ObjectId("64b2290f8050f20376310b38"),
  name: 'Freeze',
  description: 'yuilrkjfdgsfdfj',
  price: 10000,
  category: 'Electronics',
  stockQuantity: 2
}
```
e. Retrieve the details of a specific product by its unique identifier.

```
        db.products.findOne({ _id: ObjectId("64b2290f8050f20376310b38") })
```
Output:

```
  _id: ObjectId("64b22054966b639e4c1429b8"),
  name: 'headphones',
  description: 'Wireless headphones',
  price: 89.99,
  category: 'electronic',
  stockQuantity: 30
}
```

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