

**1.Print the titles of all products.**

```
for i in data["products"]:
```

```
    print(i["title"])
```

**OUTPUT:**

Essence Mascara Lash Princess

Eyeshadow Palette with Mirror

Powder Canister

Red Lipstick

Red Nail Polish

Calvin Klein CK One

Chanel Coco Noir Eau De

Dior J'adore

Dolce Shine Eau de

Gucci Bloom Eau de

Annibale Colombo Bed

Annibale Colombo Sofa

Bedside Table African Cherry

Knoll Saarinen Executive Conference Chair

Wooden Bathroom Sink With Mirror

Apple

Beef Steak

Cat Food

Chicken Meat

Cooking Oil

Cucumber

Dog Food

Eggs

Fish Steak

Green Bell Pepper

Green Chili Pepper

Honey Jar

Ice Cream

Juice

Kiwi

**2. Print the titles of products with a rating greater than 4.**

```
for i in data["products"]:
```

```
    if i["rating"]>4:
```

```
        print(i["title"])
```

**OUTPUT:**

Powder Canister

Red Lipstick

Red Nail Polish

Calvin Klein CK One

Chanel Coco Noir Eau De

Annibale Colombo Bed

Knoll Saarinen Executive Conference Chair

Apple

Beef Steak

Cooking Oil

Cucumber

Dog Food

Kiwi

**3. Print the titles of all products in the "groceries" category.**

```
for i in data["products"]:
```

```
    if i["category"] == "groceries":
```

```
        print(i["title"])
```

**OUTPUT:**

Apple

Beef Steak

Cat Food

Chicken Meat

Cooking Oil

Cucumber

Dog Food

Eggs

Fish Steak

Green Bell Pepper

Green Chili Pepper

Honey Jar

Ice Cream

Juice

Kiwi

**4. count how many products are currently marked as "In Stock".**

```
count = 0
```

```
for product in data["products"]:
```

```
if product["availabilityStatus"]=="In Stock":  
    count += 1  
  
print("count of in stock:", count)
```

**OUTPUT:**

count of in stock: 27

**5. Print the titles of products that have a discount greater than 15% and a rating above 4.**

```
for product in data["products"]:  
    if product["discountPercentage"]>15 and product["rating"]>4:  
        print(product["title"])
```

**OUTPUT:**

Chanel Coco Noir Eau De

Kiwi

**6. print the titles of products that have more than 2 reviews.**

```
for product in data["products"]:  
    if len(product["reviews"]) >2:  
        print(product["title"])
```

**OUTPUT:**

Essence Mascara Lash Princess

Eyeshadow Palette with Mirror

Powder Canister

Red Lipstick

Red Nail Polish

Calvin Klein CK One

Chanel Coco Noir Eau De

Dior J'adore

Dolce Shine Eau de

Gucci Bloom Eau de

Annibale Colombo Bed

Annibale Colombo Sofa

Bedside Table African Cherry

Knoll Saarinen Executive Conference Chair

Wooden Bathroom Sink With Mirror

Apple

Beef Steak

Cat Food

Chicken Meat

Cooking Oil

Cucumber

Dog Food

Eggs

Fish Steak

Green Bell Pepper

Green Chili Pepper

Honey Jar

Ice Cream

Juice

Kiwi

**7. print the titles of products whose weight is greater than 5 and stock is less than 50.**

```
for product in data["products"]:
    if product["weight"] >5 and product["stock"]<50:
        print(product["title"])
```

**OUTPUT:**

Eyeshadow Palette with Mirror  
Calvin Klein CK One  
Dolce Shine Eau de  
Knoll Saarinen Executive Conference Chair  
Wooden Bathroom Sink With Mirror  
Apple  
Cat Food  
Green Chili Pepper

**8. Calculate and print the total stock available across all products.**

```
total_stock = 0

for product in data["products"]:
    total_stock+=product["stock"]

print("Total products with stock available:", total_stock)
```

**OUTPUT:**

Total products with stock available: 1648.

**9. Print the titles of products where the average rating from reviews is less than the product's main rating.**

```
for product in data["products"]:
    if "reviews" in product:
        for review in product["reviews"]:
```

```
if "rating" in review:
```

```
    if review["rating"] < product["rating"]:
```

```
        print(product["title"])
```

```
    break
```

**OUTPUT:**

Eyeshadow Palette with Mirror

Powder Canister

Red Lipstick

Red Nail Polish

Calvin Klein CK One

Chanel Coco Noir Eau De

Gucci Bloom Eau de

Annibale Colombo Bed

Annibale Colombo Sofa

Knoll Saarinen Executive Conference Chair

Wooden Bathroom Sink With Mirror

Apple

Beef Steak

Cat Food

Chicken Meat

Cooking Oil

Cucumber

Dog Food

Fish Steak

Green Bell Pepper

Green Chili Pepper

Honey Jar

Kiwi

**10.print the titles of products where the minimum order quantity is greater than the available stock.**

```
for product in data["products"]:
```

```
    if product["minimumOrderQuantity"]>product["stock"]:
```

```
        print( product["title"])
```

**OUTPUT:**

Cooking Oil

Eggs

Green Chili Pepper

Honey Jar

Ice Cream