"Product Data Extraction and Discount Analysis from Borjan's Website"

```
import requests
In [1]:
        import pandas as pd
In [2]:
        # Define the API URL
        api url = "https://www.borjan.com.pk/collections/sale/products.json"
        headers = {'User-Agent': 'Mozilla/5.0'} # To act like a real browser
        # Send a GET request to fetch data
        response = requests.get(api url, headers=headers)
        # Parse the JSON response
        data = response.json()
In [3]: # Get the list of all products
        products = data['products']
        # Create an empty list to save product info
        product_list = []
        # Loop through each product and extract details
        for product in products:
            name = product['title'] # Product name
            product_url = "https://www.borjan.com.pk/products/" + product['handle'] # Product
            image url = product['images'][0] if product['images'] else None # First image
            current price = float(product['variants'][0]['price']) / 100 # Price in PKR
            original_price = float(product['variants'][0]['compare_at_price']) / 100 if product
            # Save all extracted information
            product list.append({
                 'Product Name': name,
                 'Product URL': product_url,
                 'Image URL': image_url,
                 'Current Price (PKR)': current_price,
                 'Original Price (PKR)': original_price
            })
In [4]: # Load your extracted CSV
        # Convert the list into a DataFrame
        df = pd.DataFrame(product list)
        # Multiply both current and original prices by 100
        df['Current Price (PKR)'] = df['Current Price (PKR)'] * 100
        df['Original Price (PKR)'] = df['Original Price (PKR)'] * 100
        # Save the corrected file
        df.to_csv('Borjan_scrapped.csv', index=False)
        print("Prices corrected successfully!")
        Prices corrected successfully!
In [ ]:
```

Data Visualization

Calculate the discount percentage for each product based on the current price and original price.

```
In [5]: # Calculate discount percentage
  df['Discount (%)'] = ((df['Original Price (PKR)'] - df['Current Price (PKR)']) / df['Original Price (PKR)'] + Round to 2 decimal places
```

What it does

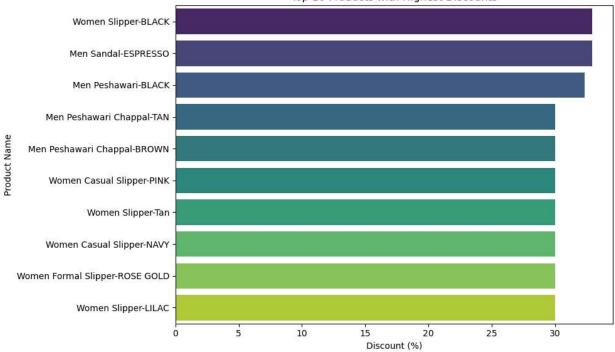
Subtracts current price from original price and then divides by original price to get the discount ratio.

Multiplies by 100 to get the percentage.

Rounds to 2 decimal places for neatness.

```
import matplotlib.pyplot as plt
In [6]:
        import seaborn as sns
        # Sort products by Discount Percentage in descending order (top discounts first)
        df_sorted = df.sort_values(by='Discount (%)', ascending=False)
        # Get the top 10 products with highest discounts
        top_10_products = df_sorted.head(10)
        # Create a bar chart for top 10 discounts
        plt.figure(figsize=(10, 6))
        sns.barplot(x='Discount (%)', y='Product Name', data=top_10_products, palette='viridis
        # Title and labels
        plt.title('Top 10 Products with Highest Discounts')
        plt.xlabel('Discount (%)')
        plt.ylabel('Product Name')
        # Show plot
        plt.tight layout()
        plt.show()
```





In []: