# Pandas Basics - Solutions

## 1. Exercise 1: Create a Series and Access Values

import pandas as pd  
  
data = [5, 10, 15, 20]  
s = pd.Series(data)  
print(s[1]) # Output: 10

## 2. Exercise 2: Create a DataFrame and Access Rows

import pandas as pd  
  
data = {  
 "calories": [500, 300, 450],  
 "duration": [60, 30, 45]  
}  
df = pd.DataFrame(data)  
print(df.loc[1])

## 3. Exercise 3: Custom Indexing and Row Access

import pandas as pd  
  
data = {  
 "calories": [500, 300, 450],  
 "duration": [60, 30, 45]  
}  
df = pd.DataFrame(data, index=["day1", "day2", "day3"])  
print(df.loc["day3"])

## 4. Exercise 4: Column Access and Filtering

print(df["calories"].to\_string(index=False))  
print(df[df["duration"] > 40])

## 5. Exercise 5: Modify the DataFrame

df["Vitamin"] = [100, 200, 300]  
del df["duration"]  
print(df)