```
#import pandas as pd
\#data = pd.Series([1, 2, 3, 4, 5])
#is empty = data.empty
#print(f"Is the Series empty? {is_empty}")
#ndim = data.ndim
#print(f"Number of dimensions: {ndim}")
#size = data.size
#print(f"Size of the Series: {size}")
#dtype = data.dtype
#print(f"Data type of the Series: {dtype}")
#head = data.head()
#print("Head of the Series:")
#print(head)
#tail = data.tail()
#print("Tail of the Series:")
#print(tail)
import pandas as pd
import numpy as np
data = {
    'A': [1, 2, 3, 4, 5],
    'B': [10, 20, 30, 40, 50],
    'Date': pd.date range(start='2023-01-01', periods=5)
df = pd.DataFrame(data)
datatype = df.dtypes
print("Datatype of each column:")
print(datatype)
```

```
transpose = df.T
print("\nTransposed DataFrame:")
print(transpose)
is_empty = df.empty
print("\nIs DataFrame empty?")
print(is_empty)
ndim = df.ndim
print("\nNumber of dimensions:")
print (ndim)
shape = df.shape
print("\nShape of DataFrame:")
print(shape)
size = df.size
print("\nTotal number of elements:")
print(size)
values = df.values
print("\nValues in DataFrame:")
print(values)
head = df.head()
print("\nFirst 5 rows of DataFrame:")
print (head)
tail = df.tail()
print("\nLast 5 rows of DataFrame:")
print(tail)
is_datetime = pd.api.types.is_datetime64_any_dtype(df['Date'])
print("\nIs 'Date' column of datetime type?")
```