```
In [2]:
         import pandas as pd
In [3]:
         import numpy as np
In [4]:
         df = sns.load dataset("archive")
        NameError
                                                  Traceback (most recent call last)
        ~\AppData\Local\Temp/ipykernel_2560/3115619703.py in <module>
        ---> 1 df = sns.load dataset("archive")
        NameError: name 'sns' is not defined
In [5]:
         import seaborn as sns
In [6]:
        df = sns.load_dataset("archive")
        TimeoutError
                                                   Traceback (most recent call last)
        ~\anaconda3\lib\urllib\request.py in do_open(self, http_class, req, **http_conn_args)
           1345
                            try:
        -> 1346
                                h.request(req.get method(), req.selector, req.data, headers,
           1347
                                          encode_chunked=req.has_header('Transfer-encoding'))
        ~\anaconda3\lib\http\client.py in request(self, method, url, body, headers, encode_ch
        unked)
                        """Send a complete request to the server."""
           1278
        -> 1279
                        self._send_request(method, url, body, headers, encode_chunked)
           1280
        ~\anaconda3\lib\http\client.py in send request(self, method, url, body, headers, enc
        ode_chunked)
           1324
                            body = encode(body, 'body')
        -> 1325
                        self.endheaders(body, encode_chunked=encode_chunked)
           1326
        ~\anaconda3\lib\http\client.py in endheaders(self, message_body, encode_chunked)
                            raise CannotSendHeader()
           1273
        -> 1274
                        self. send output(message body, encode chunked=encode chunked)
           1275
        ~\anaconda3\lib\http\client.py in _send_output(self, message_body, encode_chunked)
           1033
                        del self._buffer[:]
        -> 1034
                       self.send(msg)
           1035
        ~\anaconda3\lib\http\client.py in send(self, data)
            973
                            if self.auto open:
        --> 974
                                self.connect()
            975
                            else:
        ~\anaconda3\lib\http\client.py in connect(self)
           1440
        -> 1441
                            super().connect()
           1442
        ~\anaconda3\lib\http\client.py in connect(self)
```

```
944
                """Connect to the host and port specified in init ."""
--> 945
                self.sock = self._create_connection(
                    (self.host,self.port), self.timeout, self.source_address)
   946
~\anaconda3\lib\socket.py in create_connection(address, timeout, source_address)
    843
                try:
--> 844
                    raise err
   845
                finally:
~\anaconda3\lib\socket.py in create_connection(address, timeout, source_address)
    831
                        sock.bind(source_address)
--> 832
                    sock.connect(sa)
   833
                    # Break explicitly a reference cycle
TimeoutError: [WinError 10060] A connection attempt failed because the connected part
y did not properly respond after a period of time, or established connection failed b
ecause connected host has failed to respond
During handling of the above exception, another exception occurred:
URLError
                                          Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_2560/3115619703.py in <module>
---> 1 df = sns.load dataset("archive")
~\anaconda3\lib\site-packages\seaborn\utils.py in load_dataset(name, cache, data_hom
e, **kws)
   592
                cache_path = os.path.join(get_data_home(data_home), os.path.basename
(url))
                if not os.path.exists(cache_path):
    593
--> 594
                    if name not in get_dataset_names():
                        raise ValueError(f"'{name}' is not one of the example dataset
    595
s.")
    596
                    urlretrieve(url, cache_path)
~\anaconda3\lib\site-packages\seaborn\utils.py in get_dataset_names()
   518
   519
            url = "https://github.com/mwaskom/seaborn-data"
--> 520
            with urlopen(url) as resp:
   521
                html = resp.read()
    522
~\anaconda3\lib\urllib\request.py in urlopen(url, data, timeout, cafile, capath, cade
fault, context)
   212
            else:
   213
                opener = _opener
--> 214
            return opener.open(url, data, timeout)
    215
    216 def install opener(opener):
~\anaconda3\lib\urllib\request.py in open(self, fullurl, data, timeout)
    515
    516
                sys.audit('urllib.Request', req.full url, req.data, req.headers, req.
get_method())
--> 517
               response = self._open(req, data)
    518
    519
                # post-process response
~\anaconda3\lib\urllib\request.py in open(self, req, data)
   532
    533
                protocol = req.type
--> 534
                result = self. call chain(self.handle open, protocol, protocol +
   535
                                           '_open', req)
    536
                if result:
```

```
492
                          for handler in handlers:
              493
                               func = getattr(handler, meth_name)
          --> 494
                               result = func(*args)
                               if result is not None:
              495
              496
                                   return result
         ~\anaconda3\lib\urllib\request.py in https_open(self, req)
             1388
                          def https_open(self, req):
          -> 1389
                               return self.do_open(http.client.HTTPSConnection, req,
             1390
                                   context=self._context, check_hostname=self._check_hostname)
             1391
          ~\anaconda3\lib\urllib\request.py in do_open(self, http_class, req, **http_conn_args)
                                             encode_chunked=req.has_header('Transfer-encoding'))
                               except OSError as err: # timeout error
             1348
          -> 1349
                                   raise URLError(err)
             1350
                               r = h.getresponse()
             1351
                          except:
          URLError: <urlopen error [WinError 10060] A connection attempt failed because the con</pre>
          nected party did not properly respond after a period of time, or established connecti
          on failed because connected host has failed to respond>
 In [7]:
          df = sns.load_dataset("diabetes_data")
          ValueError
                                                      Traceback (most recent call last)
          ~\AppData\Local\Temp/ipykernel_2560/3038040564.py in <module>
          ----> 1 df = sns.load dataset("diabetes data")
          ~\anaconda3\lib\site-packages\seaborn\utils.py in load_dataset(name, cache, data_hom
          e, **kws)
              593
                          if not os.path.exists(cache path):
              594
                               if name not in get_dataset_names():
          --> 595
                                   raise ValueError(f"'{name}' is not one of the example dataset
          s.")
              596
                               urlretrieve(url, cache path)
              597
                          full path = cache path
          ValueError: 'diabetes data' is not one of the example datasets.
In [10]:
            file path = "diabetes_data.csv"
In [11]:
          df = pd.read_csv(r"C:\Users\user\Desktop\DAFINAL PROJECT\archive\diabetes_data.csv")
In [12]:
           df
                Age Sex HighChol CholCheck BMI Smoker HeartDiseaseorAttack PhysActivity Fruits Vo
Out[12]:
              0
                 4.0
                      1.0
                                0.0
                                          1.0
                                              26.0
                                                       0.0
                                                                           0.0
                                                                                       1.0
                                                                                              0.0
              1 12.0
                      1.0
                                1.0
                                          1.0 26.0
                                                        1.0
                                                                           0.0
                                                                                       0.0
                                                                                              1.0
              2 13.0
                      1.0
                                0.0
                                          1.0 26.0
                                                       0.0
                                                                           0.0
                                                                                       10
                                                                                              1.0
              3
                11.0
                      1.0
                                1.0
                                          1.0 28.0
                                                        1.0
                                                                           0.0
                                                                                       1.0
                                                                                              1.0
                 8.0
                      0.0
                                0.0
                                          1.0 29.0
                                                                           0.0
                                                                                       1.0
                                                                                              1.0
                                                       1.0
```

~\anaconda3\lib\urllib\request.py in _call_chain(self, chain, kind, meth_name, *args)

| | Age | Sex | HighChol | CholCheck | ВМІ | Smoker | HeartDiseaseorAttack | PhysActivity | Fruits | V |
|-------|------|-----|----------|-----------|------|--------|----------------------|--------------|--------|---|
| ••• | | | | | | | | | | _ |
| 70687 | 6.0 | 0.0 | 1.0 | 1.0 | 37.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 70688 | 10.0 | 1.0 | 1.0 | 1.0 | 29.0 | 1.0 | 1.0 | 0.0 | 1.0 | |
| 70689 | 13.0 | 0.0 | 1.0 | 1.0 | 25.0 | 0.0 | 1.0 | 0.0 | 1.0 | |
| 70690 | 11.0 | 0.0 | 1.0 | 1.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 70691 | 9.0 | 0.0 | 1.0 | 1.0 | 25.0 | 0.0 | 1.0 | 1.0 | 1.0 | |

70692 rows × 18 columns

```
In [13]: file_path = "hypertension_data.csv"

In [14]: df = pd.read_csv(r"C:\Users\user\Desktop\DAFINAL PROJECT\archive\hypertension_data.c
```

In [15]: df

Out[15]: cp trestbps chol fbs restecg thalach exang oldpeak slope ca thal target age sex 57.0 1.0 2.3 64.0 0.0 3.5 52.0 1.0 1.4 56.0 0.0 8.0 66.0 0.0 0.6 ... 72.0 0.0 1.9 60.0 1.0 0.9 68.0 1.0 0.1 67.0 1.0 0.0

26083 rows × 14 columns

0.0

67.0

```
In [16]: file_path = "stroke_data.csv"

In [17]: df = pd.read_csv(r"C:\Users\user\Desktop\DAFINAL PROJECT\archive\stroke_data.csv")

In [18]: df
```

0.0

1 1

| 0 | 1.0 63.0 | 0 | 1 | 1 | 4 | 1 | 2 | | | | | |
|--------------------------------------------------|-------------------------------------------------------------------------|-------------|--------------------------|-------------|------------------|---|---|--|--|--|--|--|
| 1 | 1.0 42.0 | 0 | 1 | 1 | 4 | 0 | 1 | | | | | |
| 2 | 0.0 61.0 | 0 | 0 | 1 | 4 | 1 | 1 | | | | | |
| 3 | 1.0 41.0 | 1 | 0 | 1 | 3 | 0 | 1 | | | | | |
| 4 | | 0 | 0 | 1 | 4 | 1 | 1 | | | | | |
| 4 | 1.0 65.0 | U | U | ı | 4 | ı | I | | | | | |
| ••• | | | | | | | | | | | | |
| 40905 | 1.0 38.0 | 0 | 0 | 0 | 4 | 1 | 1 | | | | | |
| 40906 | 0.0 53.0 | 0 | 0 | 1 | 4 | 0 | | | | | | |
| 40907 | 1.0 32.0 | 0 | 0 | 1 | 2 | 0 | 2 | | | | | |
| 40908 | 1.0 42.0 | 0 | 0 | 1 | 3 | 0 | 2 | | | | | |
| 40909 | | 0 | 0 | 0 | | 0 | | | | | | |
| 40909 | 1.0 35.0 | U | U | U | 4 | U | | | | | | |
| 40910 | rows × 11 columi | าร | | | | | | | | | | |
| 4.6 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| nnin | t(df.head()) | | | | | | | | | | | |
| pi III | c(ur.neau()) | | | | | | | | | | | |
| se | | ension hear | t_disease eve | er_married | work_type | \ | | | | | | |
| 0 1. | | 0 | 1 | 1 | 4 | | | | | | | |
| 1 1. | | 0 | 1 | 1 | 4 | | | | | | | |
| 2 0. 3 1. | | 0 1 | 0 0 | 1 | 4 | | | | | | | |
| 4 1. | | 0 | 0 | 1 | 4 | | | | | | | |
| | | , , | | | | | | | | | | |
| ке 0 | sidence_type a 1 | | evel bmi sn 8.69 36.6 | ioking_stat | us stroke 1 1 | | | | | | | |
| 1 | 0 | | 5.92 32.5 | | 0 1 | | | | | | | |
| 2 | 1 | | 1.23 34.4 | | 1 1 | | | | | | | |
| 3 | 0 | 17 | 4.12 24.0 | | 0 1 | | | | | | | |
| 4 | 1 | 18 | 6.21 29.0 | | 1 1 | | | | | | | |
| <pre>print(df.info())</pre> | | | | | | | | | | | | |
| <class 'pandas.core.frame.dataframe'=""></class> | | | | | | | | | | | | |
| | RangeIndex: 40910 entries, 0 to 40909 Data columns (total 11 columns): | | | | | | | | | | | |
| | Column | Non-Null | Count Dtype | | | | | | | | | |
| | | | | | | | | | | | | |
| 0 | sex | 40907 no | n-null floate | 54 | | | | | | | | |
| | age | 40910 no | | | | | | | | | | |
| | hypertension | 40910 no | | | | | | | | | | |
| | heart_disease | 40910 no | | | | | | | | | | |
| | ever_married | 40910 no | | | | | | | | | | |
| | work_type | 40910 no | | | | | | | | | | |
| | Residence_type | 40910 no | | | | | | | | | | |
| | avg_glucose_lev | | | 54 | | | | | | | | |
| | bmi | 40910 no | | | | | | | | | | |
| | smoking_status | 40910 no | | | | | | | | | | |
| | stroke | 40910 no | | | | | | | | | | |
| | s: float64(4), | | | | | | | | | | | |
| | y usage: 3.4 MB | | | | | | | | | | | |
| None | , , , , , , , | | | | | | | | | | | |

None

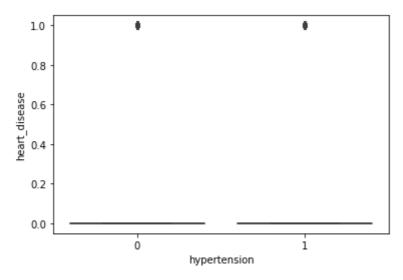
Out[18]: sex age hypertension heart_disease ever_married work_type Residence_type avg_glucose

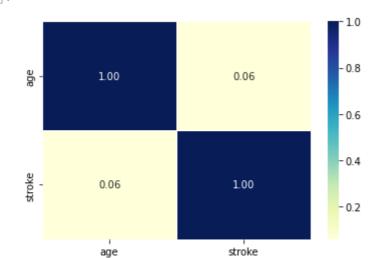
```
In [21]:
          print(df.isnull().sum())
                               3
         sex
                               0
         age
         hypertension
                               0
         heart_disease
                               0
         ever_married
                               0
                               0
         work_type
         Residence_type
         avg_glucose_level
                               0
         bmi
                               0
                               0
         smoking_status
                               0
         stroke
         dtype: int64
In [22]:
          df = df.dropna()
In [23]:
          print(df.duplicated().sum())
         0
In [24]:
          df = df.drop duplicates()
In [25]:
          df['date_column'] = pd.to_datetime(df['date_column'])
                                                    Traceback (most recent call last)
         KevError
         ~\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc(self, key, metho
         d, tolerance)
            3360
                              try:
         -> 3361
                                  return self._engine.get_loc(casted_key)
            3362
                              except KeyError as err:
         ~\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.index.IndexEngin
         e.get_loc()
         ~\anaconda3\lib\site-packages\pandas\_libs\index.pyx in pandas._libs.index.IndexEngin
         e.get_loc()
         pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.g
         et item()
         pandas\_libs\hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.g
         et_item()
         KeyError: 'date_column'
         The above exception was the direct cause of the following exception:
         KeyError
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp/ipykernel 2560/3411264587.py in <module>
         ----> 1 df['date_column'] = pd.to_datetime(df['date_column'])
         ~\anaconda3\lib\site-packages\pandas\core\frame.py in __getitem__(self, key)
            3456
                              if self.columns.nlevels > 1:
                                  return self._getitem_multilevel(key)
            3457
          -> 3458
                              indexer = self.columns.get_loc(key)
            3459
                              if is_integer(indexer):
```

```
3460
                                  indexer = [indexer]
         ~\anaconda3\lib\site-packages\pandas\core\indexes\base.py in get_loc(self, key, metho
         d, tolerance)
             3361
                                   return self._engine.get_loc(casted_key)
             3362
                              except KeyError as err:
          -> 3363
                                  raise KeyError(key) from err
             3364
                          if is_scalar(key) and isna(key) and not self.hasnans:
             3365
          KeyError: 'date_column'
In [26]:
           print(df.describe()
            File "C:\Users\user\AppData\Local\Temp/ipykernel_2560/4270986709.py", line 1
              print(df.describe()
         SyntaxError: unexpected EOF while parsing
In [27]:
           print(df.describe())
                          sex
                                         age
                                              hypertension heart_disease ever_married
                 40907.000000
                               40907.000000
                                              40907.000000
                                                             40907.000000 40907.000000
          count
         mean
                     0.555162
                                  51.327303
                                                  0.213851
                                                                  0.127729
                                                                                0.821326
                     0.496954
                                  21.624171
                                                  0.410028
                                                                  0.333792
                                                                                0.383083
         std
         min
                     0.000000
                                   -9.000000
                                                  0.000000
                                                                  0.000000
                                                                                0.000000
         25%
                     0.000000
                                  35.000000
                                                  0.000000
                                                                  0.000000
                                                                                1.000000
         50%
                     1.000000
                                  52.000000
                                                  0.000000
                                                                  0.000000
                                                                                1,000000
         75%
                     1.000000
                                  68.000000
                                                  0.000000
                                                                  0.000000
                                                                                1.000000
         max
                     1.000000
                                 103.000000
                                                  1.000000
                                                                  1.000000
                                                                                1.000000
                               Residence_type avg_glucose_level
                                                                             bmi
                    work_type
                 40907.000000
                                 40907.000000
                                                     40907.000000
                                                                    40907.000000
         count
                                                                       30.406488
         mean
                     3.461095
                                     0.514851
                                                       122.079679
                     0.780934
                                     0.499786
                                                        57.561951
         std
                                                                        6.835305
                     0.000000
                                                        55.120000
                                                                       11.500000
         min
                                     0.000000
          25%
                     3.000000
                                     0.000000
                                                        78.750000
                                                                       25.900000
         50%
                     4.000000
                                     1.000000
                                                        97.920000
                                                                       29.400000
         75%
                     4.000000
                                     1.000000
                                                       167.590000
                                                                       34,100000
                     4.000000
                                     1.000000
                                                       271.740000
                                                                       92.000000
         max
                 smoking_status
                                        stroke
                   40907.000000
                                 40907.000000
          count
                       0.488572
                                     0.500159
         mean
         std
                       0.499875
                                     0.500006
         min
                       0.000000
                                     0.000000
                                     0.000000
          25%
                       0.000000
          50%
                       0.000000
                                     1.000000
          75%
                       1.000000
                                      1.000000
                                     1.000000
         max
                       1.000000
In [28]:
          import matplotlib.pylot as plt
         ModuleNotFoundError
                                                     Traceback (most recent call last)
         ~\AppData\Local\Temp/ipykernel_2560/3792379548.py in <module>
          ----> 1 import matplotlib.pylot as plt
         ModuleNotFoundError: No module named 'matplotlib.pylot'
In [29]:
          pip install matplotlib
```

```
s(3.4.3)
         Requirement already satisfied: python-dateutil>=2.7 in c:\users\user\anaconda3\lib\si
         te-packages (from matplotlib) (2.8.2)
         Requirement already satisfied: pyparsing>=2.2.1 in c:\users\user\anaconda3\lib\site-p
         ackages (from matplotlib) (3.0.4)
         Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\user\anaconda3\lib\site-
         packages (from matplotlib) (1.3.1)
         Requirement already satisfied: numpy>=1.16 in c:\users\user\anaconda3\lib\site-packag
         es (from matplotlib) (1.20.3)
         Requirement already satisfied: cycler>=0.10 in c:\users\user\anaconda3\lib\site-packa
         ges (from matplotlib) (0.10.0)
         Requirement already satisfied: pillow>=6.2.0 in c:\users\user\anaconda3\lib\site-pack
         ages (from matplotlib) (8.4.0)
         Requirement already satisfied: six in c:\users\user\anaconda3\lib\site-packages (from
         cycler>=0.10->matplotlib) (1.16.0)
         Note: you may need to restart the kernel to use updated packages.
In [30]:
          import matplotlib.pylot as plt
         ModuleNotFoundError
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp/ipykernel_2560/3792379548.py in <module>
         ----> 1 import matplotlib.pylot as plt
         ModuleNotFoundError: No module named 'matplotlib.pylot'
In [31]:
           import matplotlib.pyplot as plt
In [32]:
           plt.scatter(['age'],['hypertension'])
         <matplotlib.collections.PathCollection at 0x1af8187e370>
Out[32]:
          hypertension
                                           age
In [33]:
           df1 = df.dropna(subset=['hypertension', 'heart disease'])
In [34]:
          sns.boxplot(data=df1,x='hypertension',y='heart_disease')
         <AxesSubplot:xlabel='hypertension', ylabel='heart_disease'>
Out[34]:
```

Requirement already satisfied: matplotlib in c:\users\user\anaconda3\lib\site-package





```
In [ ]:
```