

```
In [82]: # AUTHOR: YAVUZ SELIM BASTEMUR
# ASSISTED BY JR. DEV. SAMET ENDS ORSDEMIR
# TOTAL TIME SPENT: 17 minutes (Including as coffee break :D)
import requests
from collections import Counter

class SucRaporu():
    def __init__(self, suc_tipi, bolge, tarih):
        self.suc_tipi = suc_tipi
        self.bolge = bolge
        self.tarih = tarih

    def url_hazirla(self):
        urlPart1="https://data.police.uk/api/crimes-no-location?category="
        urlPart2="&force="
        urlPart3="&date="
        enes_url2=urlPart1+self.suc_tipi+urlPart2+self.bolge+urlPart3+self.tarih
        return enes_url2

    def suclari_bul(self):
        enes_url2=self.url_hazirla()
        response = requests.get(enes_url2)
        if response.status_code==200:
            return response.json()
        else:
            return enes_url2

    def suclari_raporla(self):
        suclar_listesi=[]
        self.suclar = self.suclari_bul()
        if self.suclar is not None:
            for suc in self.suclar:
                suclar_listesi.append(suc["category"])
        return Counter(suclar_listesi)
```

```
In [83]: sr=SucRaporu("all-crime", "norfolk", "2020-11")
```

```
In [84]: print(sr.suclari_raporla())
```

```
-----TypeError
----> 1 print(sr.suclari_raporla())
Cell In[82], line 33, in SucRaporu.suclari_raporla(self)
    31 if self.suclar is not None:
    32     for suc in self.suclar:
--> 33         suclar_listesi.append(suc["category"])
    34     return Counter(suclar_listesi)
TypeError: string indices must be integers
```

Traceback (most recent call last):Cell In[84], 1

```
In [4]: def url_hazirla(suc_tipi, bolge, tarih):
urlPart1="https://data.police.uk/api/crimes-no-location?category="
urlPart2="&force="
urlPart3="&date="
enes_url2=urlPart1+suc_tipi+urlPart2+bolge+urlPart3+tarih
return enes_url2
```

```
In [60]: url_hazirla("all-crime", "norfolk", "2020-11")
```

```
Out [60]: 'https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2020-11'
```

```
In [98]: dogrusu = "https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2020-11"
deneme = "https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2020-11"
dogrusu==deneme
```

```
Out [98]: True
```

```
In [104]: import requests
from collections import Counter

class SucRaporu():
    def __init__(self, suc_tipi, bolge, tarih):
        self.suc_tipi = suc_tipi
        self.bolge = bolge
        self.tarih = tarih

    def url_hazirla(self):
        urlPart1 = "https://data.police.uk/api/crimes-no-location?category="
        urlPart2 = "&force="
        urlPart3 = "&date="
        enes_url2 = urlPart1 + self.suc_tipi + urlPart2 + self.bolge + urlPart3 + self.tarih
        return enes_url2

    def suclari_bul(self):
        enes_url2 = self.url_hazirla()
        response = requests.get(enes_url2)
```

```

print(f"Request URL: {enes_url2}")
print(f"Response Status Code: {response.status_code}")

if response.status_code == 200:
    return response.json()
else:
    print(f"Error: {response.text}")
    return None

def suclari_raporla(self):
    suclar_listesi = []
    self.suclar = self.suclari_bul()
    if self.suclar is not None and isinstance(self.suclar, list):
        for suc in self.suclar:
            suclar_listesi.append(suc["category"])
        rapor = Counter(suclar_listesi)
        if rapor:
            for suç, sayı in rapor.items():
                print(f"{suç}: {sayı}")
        else:
            print("Herhangi bir suç bulunamadı.")

        return rapor
    else:
        print("Veri alınamadı.")
        return None

```

In [105]: `sr=SucRaporu("all-crime","norfolk","2023-11")`

In [106]: `print(sr.suclari_raporla())`

```

Request URL: https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2023-11
Response Status Code: 200
bicycle-theft: 2
burglary: 4
criminal-damage-arson: 9
drugs: 12
other-theft: 14
possession-of-weapons: 2
public-order: 13
robbery: 2
shoplifting: 13
vehicle-crime: 3
violent-crime: 36
Counter({'violent-crime': 36, 'other-theft': 14, 'public-order': 13, 'shoplifting': 13, 'drugs': 12, 'criminal-damage-arson': 9, 'burglary': 4, 'vehicle-crime': 3,

```

In [116]:

```

import requests
from collections import Counter

class SucRaporu():
    def __init__(self, suc_tipi, bolge, tarih):
        self.suc_tipi = suc_tipi
        self.bolge = bolge
        self.tarih = tarih

    def url_hazirla(self):
        urlPart1 = "https://data.police.uk/api/crimes-no-location?category="
        urlPart2 = "&force="
        urlPart3 = "&date="
        enes_url2 = urlPart1 + self.suc_tipi + urlPart2 + self.bolge + urlPart3 + self.tarih
        return enes_url2

    def suclari_bul(self):
        enes_url2 = self.url_hazirla()
        response = requests.get(enes_url2)
        print(f"Request URL: {enes_url2}")
        print(f"Response Status Code: {response.status_code}")

        if response.status_code == 200:
            return response.json()
        else:
            print(f"Error: {response.text}")
            return None

    def suclari_raporla(self):
        suclar_listesi = []
        self.suclar = self.suclari_bul()
        if self.suclar is not None and isinstance(self.suclar, list):
            for suc in self.suclar:
                suclar_listesi.append(suc["category"])
            rapor = Counter(suclar_listesi)

            if rapor:
                sorted_rapor = sorted(rapor.items())
                for suç, sayı in sorted_rapor:
                    print(f"{suç}: {sayı}")
            else:
                print("Herhangi bir suç bulunamadı.")

            return rapor

```

```
else:
    print("Veri alınamadı.")
    return None
```

```
In [117]: sr = SucRaporu("all-crime", "norfolk", "2023-11")
```

```
In [118]: sr.suclari_raporla()
```

```
Request URL: https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2023-11
Response Status Code: 200
bicycle-theft: 2
burglary: 4
criminal-damage-arson: 9
drugs: 12
other-theft: 14
possession-of-weapons: 2
public-order: 13
robbery: 2
shoplifting: 13
vehicle-crime: 3
violent-crime: 36
```

```
Out [118]: Counter({'bicycle-theft': 2,
                    'burglary': 4,
                    'criminal-damage-arson': 9,
                    'drugs': 12,
                    'other-theft': 14,
                    'possession-of-weapons': 2,
                    'public-order': 13,
                    'robbery': 2,
                    'shoplifting': 13,
                    'vehicle-crime': 3,
                    'violent-crime': 36})
```

```
In [134]: import requests
          from collections import Counter

          class SucRaporu():
              def __init__(self, suc_tipi, bolge, tarih):
                  self.suc_tipi = suc_tipi
                  self.bolge = bolge
                  self.tarih = tarih

              def url_hazirla(self):
                  urlPart1 = "https://data.police.uk/api/crimes-no-location?category="
                  urlPart2 = "&force="
                  urlPart3 = "&date="
                  enes_url2 = urlPart1 + self.suc_tipi + urlPart2 + self.bolge + urlPart3 + self.tarih
                  return enes_url2

              def suclari_bul(self):
                  enes_url2 = self.url_hazirla()
                  response = requests.get(enes_url2)
                  print(f"Request URL: {enes_url2}")
                  print(f"Response Status Code: {response.status_code}")

                  if response.status_code == 200:
                      return response.json()
                  else:
                      print(f"Error: {response.text}")
                      return None

              def suclari_raporla(self):
                  suclar_listesi = []
                  self.suclar = self.suclari_bul()
                  if self.suclar is not None and isinstance(self.suclar, list):
                      for suc in self.suclar:
                          suclar_listesi.append(suc["category"])
                      rapor = Counter(suclar_listesi)

                      if rapor:
                          sorted_rapor = sorted(rapor.items())
                          rapor_text = "\n".join([f"{suç}: {sayı}" for suç, sayı in sorted_rapor])
                          return rapor_text
                      else:
                          return "Herhangi bir suç bulunamadı."
                  else:
                      return "Veri alınamadı."
```

```
In [135]: sr = SucRaporu("all-crime", "norfolk", "2023-11")
```

```
In [136]: rapor = sr.suclari_raporla()
```

```
Request URL: https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2023-11
Response Status Code: 200
```

```
In [137]: print(rapor)
```

```
bicycle-theft: 2
burglary: 4
criminal-damage-arson: 9
drugs: 12
other-theft: 14
possession-of-weapons: 2
```

```
public-order: 13
robbery: 2
shoplifting: 13
vehicle-crime: 3
violent-crime: 36
```

```
In [138]: sr2 = SucRaporu("all-crime", "norfolk", "2020-11")
```

```
In [139]: rapor = sr2.suclari_raporla()
```

```
Request URL: https://data.police.uk/api/crimes-no-location?category=all-crime&force=norfolk&date=2020-11
Response Status Code: 404
Error:
```

```
In [140]: print(rapor)
```

Veri alınamadı.

```
In [ ]:
```