

```

1  """Module containing all the data structures for cases."""
2
3  from PartyTypes import Party
4
5  class Case(object):
6      """The base object from which all other objects are connected. Any matter
7      before the court will have at a minimum some type of case."""
8
9      def __init__(self, case_number: str) -> None:
10         self.case_number = case_number
11         self.case_type_code = case_number[2:5]
12         self.case_parties = []
13
14     def add_party_to_case(self, party_type: str) -> None:
15         """The party_type will generally be either "Plaintiff" or "Defendant."""
16         self.party_type = party_type
17         self.case_parties.append(self.party_type)
18
19
20     class TrafficCase(Case):
21         """
22         A case type for traffic cases. The format for the case number will be
23         either YYTRCXXXX or YYTRDXXXX.
24
25         YY = last two digits of the year the case was filed.
26         TRC = is for OVI offense cases.
27         TRD = is for all other traffic cases (non-OVI).
28         XXXX = the case number assigned to the case.
29
30         """
31
32         def __init__(self, case_number):
33             """
34             The initialization of a TrafficCase takes the case number and strips
35             out the case numbers to create a case_type_code (i.e. TRC or TRD).
36             """
37             super().__init__(case_number)
38             self.case_charges: list = []
39
40         def add_charge_to_case(self, traffic_charge: TrafficCharge) -> None:
41             self.traffic_charge: TrafficCharge = traffic_charge
42             self.case_charges.append(self.traffic_charge)
43
44
45     class CriminalCase(Case):
46         """
47         A case type for criminal cases. The format for the case number will be
48         either YYCRBXXXX
49
50         YY = last two digits of the year the case was filed.
51         CRB = is for all criminal cases.
52         XXXX = the case number assigned to the case.
53
54         """
55
56         def __init__(self, case_number):
57             """
58             The initialization of a CriminalCase takes the case number and strips
59             out the case numbers to create a case_type_code CRB.
60             """
61             super().__init__(case_number)
62
63
64     test = CriminalCase("21CRB0123")
65     print(test.case_type_code)
66     test.add_party_to_case(Party("Plaintiff"))
67     print(test.case_parties)

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68 print(test.case_parties[0].party_type)
```