

```

1 # coding= utf-8
2 # DT Language Structure (language.py)
3 # Bach Vu
4 # 01/08/2020
5
6 from datetime import datetime
7
8 class DT_Language:
9     def __init__(self, langMode, outputType, time):
10         # (0x0001:Eng, 0x0002:Maori, 0x0003:Ger)
11         self.language = langMode - 1
12         self.mode = outputType - 1
13         self.time = time
14         self.stringFormats = [
15             ["Today's date is {} {}, {}", "The current time is {:02d}:{:02d}"],
16             ["Ko te ra o tenei ra ko {} {}, {}", "Ko te wa o tenei wa {:02d}:{:02d}"],
17             ["Heute ist der {}. {} {}", "Die Uhrzeit ist {:02d}:{:02d}"]
18         ]
19         self.Months = [
20             ["January", "February", "March", "April", "May", "June", "July", "August",
21 "September", "October", "November", "December"],
22             ["Kohitātea", "Hui-tanguru", "Poutū-te-rangi", "Paenga-whāwhā", "Haratua",
23 "Pipiri", "Hōngongoi", "Here-turi-kōkā", "Mahuru", "Whiringa-ā-nuku", " Whiringa-ā-rangi",
24 "Hakihea"],
25             ["Januar", "Februar", "März", "April", "Mai", "Juni", "Juli", "August",
26 "September", "Oktober", "November", "Dezember"]
27         ]
28
29     def DTtoString(self):
30         day, month, year = self.time[2], self.time[1], self.time[0]
31         hour, minute = self.time[3], self.time[4]
32         output = self.stringFormats[self.language][self.mode]
33         if self.mode == 0:
34             month_str = self.Months[self.language][month-1]
35             if self.language != 2:
36                 output = output.format(month_str, day, year)
37             else:
38                 output = output.format(day, month_str, year)
39         elif self.mode == 1:
40             output = output.format(hour, minute)
41         return output
42
43 def test():
44     dt = [2020,8,8,7,0]
45     lang1 = DT_Language(0x0001, 0x0001, dt)
46     print(lang1.DTtoString())
47     lang1 = DT_Language(0x0001, 0x0002, dt)
48     print(lang1.DTtoString())
49     lang1 = DT_Language(0x0002, 0x0001, dt)
50     print(lang1.DTtoString())
51     lang1 = DT_Language(0x0002, 0x0002, dt)
52     print(lang1.DTtoString())
53     lang1 = DT_Language(0x0003, 0x0001, dt)
54     print(lang1.DTtoString())
55     lang1 = DT_Language(0x0003, 0x0002, dt)
56     print(lang1.DTtoString())
57
58 if __name__ == "__main__":
59     test()

```