demo02

June 9, 2021

```
[1]: from typing import List, Dict
```

```
[2]: # valid function definition with type hint


     def print_hung_tien_in_map(input: Dict[str, str]):
         print(input["Hung-Tien Huang"])
```

```
[3]: # variable declaration
     input: Dict[str, str] = dict({
         "Hung-Tien Huang": "279-FR",
         "Chien-Ping Wu": "KKA-0580"
     })
     input_1 = list(["Hung-Tien Huang", "Chien-Ping Wu"])
```

```
[4]: # valid function call
     print_hung_tien_in_map(input)
```

```
279-FR
```

```
[5]: # generate type error
     print_hung_tien_in_map(input_1)
```

```
        ---------------------------------------------------------------------------
        TypeError                                 Traceback (most recent call last)
        c:
         ↪\Users\Fred\Documents\SchoolWork\University\3\CSCE330\presentation\src\python\demo02.
         ↪py in <module>
              1 # generate type error
        ----> 2 print_hung_tien_in_map(input_1)

        c:
         ↪\Users\Fred\Documents\SchoolWork\University\3\CSCE330\presentation\src\python\demo02.
         ↪py in print_hung_tien_in_map(input)
              3
              4 def print_hung_tien_in_map(input: Dict[str, str]):
        ----> 5     print(input["Hung-Tien Huang"])
              6
```

```
TypeError: list indices must be integers or slices, not str
```

[6]:
```python
# valid function definition


def print_bus_assignment_table(input: Dict[str, str]):
    print("Bus Assignment Table")
    print(str.format("Mr. Huang is driving bus {}.", input["Hung-Tien Huang"]))
    print(str.format("Mr. Wu is driving bus {}.", input["Chien-Ping Wu"]))
```

[7]:
```python
# generate type error
print_bus_assignment_table(input_1)
```

Bus Assignment Table

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
c:
↪\Users\Fred\Documents\SchoolWork\University\3\CSCE330\presentation\src\python\demo02.
↪py in <module>
      1 # generate type error
----> 2 print_bus_assignment_table(input_1)

c:
↪\Users\Fred\Documents\SchoolWork\University\3\CSCE330\presentation\src\python\demo02.
↪py in print_bus_assignment_table(input)
      4 def print_bus_assignment_table(input: Dict[str, str]):
      5     print("Bus Assignment Table")
----> 6     print(str.format("Mr. Huang is driving bus {}.", input["Hung-Tien␣
↪Huang"]))
      7     print(str.format("Mr. Wu is driving bus {}.", input["Chien-Ping␣
↪Wu"]))
      8

TypeError: list indices must be integers or slices, not str
```