Copilot

return self._params

if isinstance(params, dict):

key, value = params

self. params = params

if key in self.ALLOWED_KEYS:
 self._params[key] = value

@params.setter

else:

You can make your exception more flexible by passing the allowed keys as a parameter to your InvalidKeyError class. Here's how you can do it:

```
class InvalidKeyError(ValueError):
    """Exception raised for errors in the input.
    Attributes:
       _message -- explanation of the error
    def __init__(self, allowed_keys: set):
        self. message = f"Invalid key in params. Only {allowed keys} are allowed."
        super().__init__(self.message)
    @property
    def message(self):
        return self._message
And in your MyClass, you can define the allowed keys as a class attribute:
from typing import Dict, Tuple, Union
class MyClass:
   ALLOWED_KEYS = {"T", "D"}
    def __init__(self, params: Dict[str, float] = {"T": 1.0, "D": 0.5}) -> None:
        self._params: Dict[str, float] = params
    @property
    def params(self) -> Dict[str, float]:
        """ Get or set the parameters "
```

def params(self, params: Union[Dict[str, float], Tuple[str, float]]) -> None:

if set(params.keys()).issubset(self.ALLOWED KEYS):

raise InvalidKeyError(self.ALLOWED_KEYS)
elif isinstance(params, tuple) and len(params) == 2:

raise InvalidKeyError(self.ALLOWED KEYS)

Now, if you want to change the allowed keys, you just need to update the ALLOWED_KEYS attribute in MyClass. The error message in InvalidKeyError will automatically adapt to reflect the new allowed keys. This makes your code more flexible and easier to maintain. Good question!

raise ValueError("params must be a dict or a tuple of length 2")