charmap.py 1

```
#\input texinfo
 1
 2
 3
    """ Generic Python Character Mapping Codec.
 4
 5
        Use this codec directly rather than through the automatic
        conversion mechanisms supplied by unicode() and .encode().
 6
 7
 8
 9
    Written by Marc-Andre Lemburg (mal@lemburg.com).
10
    (c) Copyright CNRI, All Rights Reserved. NO WARRANTY.
11
12
    \Pi\Pi\Pi\underline{H}\Pi
13
14
15
    import codecs
16
17
    ### Codec APIs
18
    class Codec(codecs.Codec):
19
20
21
        # Note: Binding these as C functions will result in the class not
        # converting them to methods. This is intended.
22
23
        encode = codecs.charmap_encode
24
        decode = codecs.charmap_decode
25
    class IncrementalEncoder(codecs.IncrementalEncoder);
26
        def __init__(self, errors='strict', mapping=None):
27
28
             codecs.IncrementalEncoder.__init__(self, errors)
             self.mapping = mapping
29
30
        def encode(self, input, final=False):
31
             return codecs.charmap_encode(input, self.errors, self.mapping)[0]
32
33
34
    class IncrementalDecoder(codecs.IncrementalDecoder):
35
        def __init__(self, errors='strict', mapping=None):
             codecs.IncrementalDecoder.__init__(self, errors)
36
37
             self.mapping = mapping
38
39
        def decode(self, input, final=False):
40
             return codecs.charmap_decode(input, self.errors, self.mapping)[0]
41
42
    class StreamWriter(Codec, codecs. StreamWriter):
43
44
        def __init__(self,stream,errors='strict',mapping=None):
45
             codecs.StreamWriter.__init__(self,stream,errors)
46
             self.mapping = mapping
47
        def encode(self,input,errors='strict'):
48
49
             return Codec.encode(input,errors,self.mapping)
50
51
    class StreamReader(Codec, codecs. StreamReader):
```

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```
52
53
        def __init__(self,stream,errors='strict',mapping=None):
             codecs.StreamReader.__init__(self,stream,errors)
54
55
             self.mapping = mapping
56
57
        def decode(self,input,errors='strict'):
58
             return Codec.decode(input,errors,self.mapping)
59
60
    ### encodings module API
61
62
    def getregentry():
63
         return codecs.CodecInfo(
             name='charmap',
64
65
             encode=Codec.encode,
             decode=Codec.decode,
66
67
             incrementalencoder=IncrementalEncoder,
             incrementaldecoder=IncrementalDecoder,
68
69
             streamwriter=StreamWriter,
70
             streamreader=StreamReader,
         )
71
72
```