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# abstract base class work
from abc import ABC, abstractmethod
class Polygon (ABC):
 @abstractmethod
 def noofsides(self):
   pass
class Triangle(Polygon):
overriding abstract method
 def noofsides(self):
  print("I have 3 sides")
class Pentagon(Polygon):
 def noofsides(self):
 print("I have 5 sides")
class Hexagon(Polygon):
def noofsides(self):
 print("I have 6 sides")
class Quadrilateral(Polygon):
 def noofsides(self):
 print("I have 4 sides")
# Driver code
R = Triangle()
R.noofsides()
K = Quadrilateral()
K.noofsides()
R = Pentagon()
R.noofsides()
K = Hexagon()
K.noofsides()
```