Practical No 4

Aim : Write A Program To Implement Abstract Class, Implement Interface in Python

A. Abstract Method

200

```
from abc import ABC, abstractmethod
class Animal(ABC):
  def sound(self):
     pass
class Dog(Animal):
  def sound(self):
     return "Bark"
dog = Dog()
print(dog.sound())
Bark
B. Interface Method
from abc import ABC, abstractmethod
class Area(ABC):
  @abstractmethod
  def findArea(self):
     pass
class Triangle(Area):
  def __init__(self,height,breadth):
     self.h = height
     self.b = breadth
  def findArea(self):
     return 1/2 * self.h * self.b
class Rectangle(Area):
  def __init__(self,length,breadth):
     self.l = length
     self.b = breadth
  def findArea(self):
     return self.l * self.b
t = Triangle(10,20)
print(t.findArea())
r = Rectangle(10,20)
print(r.findArea())
100.0
```