Write a Python Program(with class concepts) to find the area of the triangle using the below formula.

```
area = (s(s-a)(s-b)^*(s-c))^* 0.5
```

Function to take the length of the sides of triangle from user should be defined in the parent class and function to calculate the area should be defined in subclass

```
In [31]:
          class Triangle:
              def init (self):
                  self.a=float(input("Enter side a; "))
                  self.b=float(input("Enter side b: "))
                  self.c=float(input("Enter side c: "))
In [32]:
          class Area(Triangle):
              def area(self):
                  s=(self.a + self.b +self.c)/2
                  area=(s * ( s- self.a)*(s- self.b)*(s- self.c))**0.5
                  print("Area of triangle is :",area)
          a=Area()
          a.area()
         Enter side a; 8
         Enter side b: 5
         Enter side c: 9
         Area of triangle is: 19.8997487421324
```

Write a function filter_long_words() that takes a list of words and an integer n and returns the list of words that are longer than n

```
print("Longest word are:",lst)
          lst=["Ajit","Bharat","Gaurav","Deepika"]
In [36]:
          filter_long_words(lst,4)
         Longest word are: ['Bharat', 'Gaurav', 'Deepika']
        Write a Python program using function concept that maps list of words into a list of integers representing the lengths of the
        corresponding words.
          def words len(words):
In [37]:
              return len(words)
In [40]: l=["Ajit", "Bharat", "Dattatray"]
          result=map(words len,l)
          list(result)
Out[40]: [4, 6, 9]
        Write a Python function which takes a character (i.e. a string of length 1) and returns True if it is a vowel, False otherwise.
In [42]:
          def vowel check(char):
              if char=="a" or char=="e" or char=="i" or char=="o" or char=="u":
                  return True
              else:
                  return False
          vowel check(input("Enter your charatcter: "))
         Enter your charatcter: e
Out[42]: True
In [ ]:
```