```
In [25]:
          # 1.1
          class Triangle:
              def init (self,a,b,c):
                  self.a = float(a)
                  self.b = float(b)
                  self.c = float(c)
          a= int(input("a="))
          b= int(input("b="))
          c= int(input("c="))
         a=5
         b=6
         c=7
In [26]:
          class Area(Triangle):
              def init (self,a,b,c):
                  super().__init__(a,b,c)
              def get area(self):
                  s = (a + b + c) / 2
                  return (s*(s-a)*(s-b)*(s-c)) ** 0.5
          t = triangle(a,b,c)
          print("area : {}".format(t.get area()))
         area: 14.696938456699069
 In [6]:
          # 1.2
          def filter long words(words, n):
              l = []
              for i in words:
                  if len(i) > n:
                     l.append(i)
              print(f"Words longer than n are: {l}")
In [7]:
          lst = ["Hello", "World", "welcome", "to", "data science", "course"]
          filter long words(lst, 5)
```

```
Words longer than n are: ['welcome', 'data science', 'course']
 In [8]:
          # 2.1
          def word len(word):
              return len(word)
In [11]:
         l = ['data', 'science', 'course']
          x = list(map(word len, l))
          Х
Out[11]: [4, 7, 6]
In [29]:
          # 2.2
          def vowel check(char):
              if char == "a" or char == "e" or char == "i" or char == "o" or char == "u":
                  return True
              else:
                  return False
In [30]:
          vowel check(input("Input character: "))
         Input character: a
Out[30]: True
 In [ ]:
```