In [16]:
```
class Triangle(object):
    def sides(self,a,b,c):
        a=float(a)
        b=float(b)
        c=float(c)

class area(Triangle):
    def area(self,perimeter,s):
        Perimeter = a + b + c
        s = (a + b + c) / 2
        Area = (s*(s-a)*(s-b)*(s-c)) ** 0.5

a = float(input('Please Enter the First side of a Triangle: '))
b = float(input('Please Enter the Second side of a Triangle: '))
c = float(input('Please Enter the Third side of a Triangle: '))


print("\n The Perimeter of Traiangle = %.2f" %Perimeter);
print(" The Semi Perimeter of Traiangle = %.2f" %s);
```

```
Please Enter the First side of a Triangle: 3
Please Enter the Second side of a Triangle: 5
Please Enter the Third side of a Triangle: 4

 The Perimeter of Traiangle = 12.00
 The Semi Perimeter of Traiangle = 6.00
 The Area of a Triangle is 6.00
```

In [67]:
```
def filter_long_words(wordlist, length):
    return (word for word in wordlist if len(word) >= length)

def main():
    words = input("Enter words, separated by spaces: ").split()
    length = int(input("Minimum length of words to keep: "))
    print("Words longer than {} are {}.".format(length,', '.join(filter_long_words(wor
```

```
Enter words, separated by spaces: as dfd vcsvfvf
Minimum length of words to keep: 2
Words longer than 2 are as, dfd, vcsvfvf.
```

In [45]:
```
def map_list_to_len(words):
    lengths = []
    for word in words:
        lengths.append(len(word))
    return lengths


if __name__ == "__main__":
    words = ['test', 'abc', 'biggest one']
```

```
[4, 3, 11]
```

In [66]:
```
def is_vowel(char):
    vowels = ('a', 'e', 'i', 'o', 'u')
    if char not in vowels:
        return False
    return True


if __name__ == "__main__":
    print (is_vowel('a'))
```

```
True
False
```

In [ ]:

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In [ ]: