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T&T Lab assignment-1

1. length=float(input("Enter the length of rectangle : "))

breadth=float(input("Enter the breadth of rectangle : "))

area=length\*breadth

print("Rectangle specifications ")

print("Length : ",length," Breadth : ",breadth," Area : ",area)

2.a = float(input('Enter first side: '))

b = float(input('Enter second side: '))

c = float(input('Enter third side: '))

# calculate the semi-perimeter

s = (a + b + c) / 2

# calculate the area

area = (s\*(s-a)\*(s-b)\*(s-c)) \*\* 0.5

print('The area of the triangle is %0.2f' %area)

3.celsius\_1 = float(input("Temperature value in degree Celsius: " ))

# For Converting the temperature to degree Fahrenheit by using the above

# given formula

Fahrenheit\_1 = (celsius\_1 \* 1.8) + 32

# print the result

print('The %.2f degree Celsius is equal to: %.2f Fahrenheit'

%(celsius\_1, Fahrenheit\_1))

print("----OR----")

celsius\_2 = float (input("Temperature value in degree Celsius: " ))

Fahrenheit\_2 = (celsius\_2 \* 9/5) + 32

# print the result

print ('The %.2f degree Celsius is equal to: %.2f Fahrenheit'

%(celsius\_2, Fahrenheit\_2))

4.import cmath

a = float(input('Enter a: '))

b = float(input('Enter b: '))

c = float(input('Enter c: '))

# calculate the discriminant

d = (b\*\*2) - (4\*a\*c)

# find two solutions

sol1 = (-b-cmath.sqrt(d))/(2\*a)

sol2 = (-b+cmath.sqrt(d))/(2\*a)

print('The solution are {0} and {1}'.format(sol1,sol2))