Dashboard / My courses / ML and DA / VIRTUAL PROGRAMMING CSE C1& D1

/ 28.12.2021 Ex 3: Learning Square Root & Swap function

Question **1**

Correct

Marked out of 1.00

Write python code to find out the roots of quadratic equation. Your output should be in complex number format.

Answer: (penalty regime: 0 %)

```python
import cmath
a = float(input())
b = float(input())
c = float(input())

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

sol1 = (-b-(d**(1/2)))/(2*a)
sol2 = (-b+(d**(1/2)))/(2*a)
print('The roots of the quadratic equation is {0} and {1}'.format(sol2,sol1))
```

CHECK

	Input	Expected	Got	
✔	4 1 3	4 1 3 The roots of the quadratic equation is (−0.12499999999999994+0.8569568250501305j) and (−0.12500000000000006−0.8569568250501305j)	4 1 3 The roots of the quadratic equation is (−0.12499999999999994+0.8569568250501305j) and (−0.12500000000000006−0.8569568250501305j)	✔

Passed all tests! ✔

Question 2

Correct

Marked out of 1.00

Write python code to find the area of triangle using Heron's formula.

Answer: (penalty regime: 0 %)

```python
1  a = float(input())
2  b = float(input())
3  c = float(input())
4
5  s = (a + b + c) / 2.0
6
7  area = pow((s*(s-a)*(s-b)*(s-c)), 0.5)
8  print('The area of the triangle is %0.2f' %area)
```

CHECK

	Input	Expected	Got	
✔	4 3 5	4 3 5 The area of the triangle is 6.00	4 3 5 The area of the triangle is 6.00	✔
✔	5 6 3	5 6 3 The area of the triangle is 7.48	5 6 3 The area of the triangle is 7.48	✔

Passed all tests! ✔

Question **3**

Correct

Marked out of 1.00

Write python code to swap two numbers using a random temporary variable.

Answer: (penalty regime: 0 %)

```python
1  x = input()
2  y = input()
3
4  z = x
5  x = y
6  y = z
7
8  print("The value of x after swapping: {0}".format(x))
9  print("The value of y after swapping: {0}".format(y))
```

CHECK

	Input	Expected	Got	
✔	5 7	5 7 The value of x after swapping: 7 The value of y after swapping: 5	5 7 The value of x after swapping: 7 The value of y after swapping: 5	✔
✔	9 4	9 4 The value of x after swapping: 4 The value of y after swapping: 9	9 4 The value of x after swapping: 4 The value of y after swapping: 9	✔

Passed all tests! ✔

Question **4**

Correct

Marked out of 1.00

Write python code to swap two numbers without using temporary variable.

(0 %)

```python
1  x =int(input())
2  y =int(input())
3
4  x = x + y
5
6  y = x - y
7
8  x = x - y
9  print("After Swapping: x =", x, " y =", y)
```

Sathyabama Learning Management System

~ Developed by Cognibot

📚 **e-Resources**

INFO

Facebook

Twitter

Instagram

YouTube

Sathyabama Staff Forum

GET SOCIAL

CHECK

	Input	Expected	Got	
✔	5 7	5 7 After Swapping: x = 7 y = 5	5 7 After Swapping: x = 7 y = 5	✔
✔	99 77	99 77 After Swapping: x = 77 y = 99	99 77 After Swapping: x = 77 y = 99	✔

Passed all tests! ✔

◀ 27.12.2021_Ex 2: Learning Operators

Jump to...