SCSA2601-Machine Learning and Data Analytics Lab

Started on	Tuesday, 28 December 2021, 2:00 PM
State	Finished
Completed on	Tuesday, 28 December 2021, 2:37 PM
Time taken	37 mins 23 secs
Marks	4.00/4.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

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

Answer: (penalty regime: 0 %)

```
1 import cmath
2 a = float(input())
3 b = float(input())
4 c = float(input())
5
6 d = (b**2) - (4*a*c)
```

Quiz navigation

1 2 3 4

Finish review

Grade **10.00** out of 10.00 (**100**%)

Finish review

Question **1**

Correct

Mark 1.00 out of 1.00

Flag question

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

Answer: (penalty regime: 0 %)

```
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))
```

	Input	Expected

	Input	Expected
✔	4 1 3	4 1 3 The roots of the quadratic equation is (-0.12499999999999994+0.8569568250501305j) and (-0.12500000000000006-0.85

Passed all tests! ✔

Question author's solution (Python3):

```
a = int(input())
b = int(input())
c = int(input())
x = (-b + (((b*b)-4*a*c)**0.5))/(2*a)
y = (-b - (((b*b)-4*a*c)**0.5))/(2*a)
print('The roots of the quadratic equation is {0} and {1}'.format(x,y))
```

Correct

Marks for this submission: 1.00/1.00.

Question 2