## **PYTHON LAB:** Resolve an equation second degree

Write a program that will resolve an equation first degree ( $ax^2 + bx + c = 0$ ). The user will require to enter value of "a", "b" and "c" the program will show all possible results.

## **SOLUTION:**

```
equation_2_degree.py U X e equation2.py U
                                                                                           🕏 first-print.py Bootcam-Python U
                                                                                                                                    e operator.py U
equation_1_degree.py U
def resolve_equation_second_degree(a, b, c):
            x1 = (-b + math.sqrt(delta)) / (2*a)
x2 = (-b - math.sqrt(delta)) / (2*a)
                return f"There are two real solutions : x1 = \{x1\} et x2 = \{x2\}"
                return f"There is a double solution : x0 = \{x0\}"
            real_part = -b / (2*a)
                imaginary_part = math.sqrt(-delta) / (2*a)
                 return f"There are two complex solutions : z1 = {real_part} + {imaginary_part}i et z2 = {real_part} - {imaginary_part}i"
       a = float(input("Enter the value a : "))
  26 b = float(input("Enter the value b : "))
  29 result = resolve_equation_second_degree(a, b, c)
 PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS CODE REFERENCE LOG AZURE COMMENTS
josephmbatchou@Josephs-MacBook-Air PYTHON_LABS % python3 equation_2_degree.py
The resolution of equation ax² + bx + c = 0
Enter the value a : 1
Enter the value b : 3
Enter the value c : 2
There are two real solutions : x1 = −1.0 et x2 = −2.0
josephmbatchou@Josephs-MacBook-Air PYTHON_LABS % ■
```