Exercise: Solve a Differential Equation

In this exercise, you will solve a second-order differential equation.

Problem Statement

Solve the following differential equation in SymPy:

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y(x) = sin(x)$$

```
from sympy import *

x = Symbol('x')
y = Function('y')(x)

# write your code here
```

The solution to this exercise will be discussed in the next lesson.