

Title: `sample_code`

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Some text and some code.

```
x = 1
# a comment
y = x+1
## this is another comment
```

$$\begin{aligned}a &= b + c \\ &\quad + d + e \\ f &= g - h\end{aligned}$$

As shown in Equation, Euler's identity is a fundamental mathematical relationship.

1 Einstein's Equation $E=mc^2$

This is markdown. Consider:

$$E = mc^2 \tag{1}$$

Where Equation (1) demonstrates the relationship between energy e , mass m , and the speed of light c .

```
m = 1

c = 3e8

E = m*c^2
```

Another multiline equation is as follows:

$$\begin{aligned}Ax &= b \\ x &\geq 0\end{aligned} \tag{2}$$

Here, Equation (2) represents a system of linear equations with non-negativity constraints.