

## R Markdown

This is a simple Markdown file written in Visual Studio Code.

### C code block

```
#include <stdio.h>

int main() {

    printf("Hello, world");

    return 0;
}
```

## Math in Markdown

### Derivative of a polynomial function

$$\frac{d}{dx}[4x^2 + x - 9 = A(2x + 3)^2 + B(3x - 2)(2x + 3) + C(3x + 2)]$$

### Partial derivative symbol

$$\frac{\partial}{\partial x}$$

### Integral of a irrational function

$$\int \frac{x^2 + 7x}{(x + 9)^3} dx$$