# XX description document

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## 1 Part I of the Project

Introduction to Part I of the Project ...

#### 1.1 Problem XX

• Consider the model equation

$$\begin{cases}
-\nabla \cdot (a(u)\nabla u) = f, & \text{in } \Omega, \\
u = 0, & \text{on } \partial\Omega.
\end{cases}$$
(1)

- FDM\_Possion.m Finite difference method for solving Possion equation.
- FEM\_Possion.m Finite element method for solving Possion equation.

### 2 Part II of the Project

Introduction to Part II of the Project ...

- 1. Point one
- 2. Point two
- 3. Point three
- ♠ Consider model equations

$$\begin{cases}
-\nabla \cdot (a(u)\nabla u) = f, & \text{in } \Omega, \\
u = 0, & \text{on } \partial\Omega.
\end{cases}$$
(2)

This is the MATLAB code highlighting environment

#### MATLAB code

This is the Python code highlighting environment

## Python code

```
# Fibonacci series up to n

def fib(n):
    a, b = 0, 1

while a < n:
    print(a, end=' ')
    a, b = b, a+b

print()

fib(1000)</pre>
```