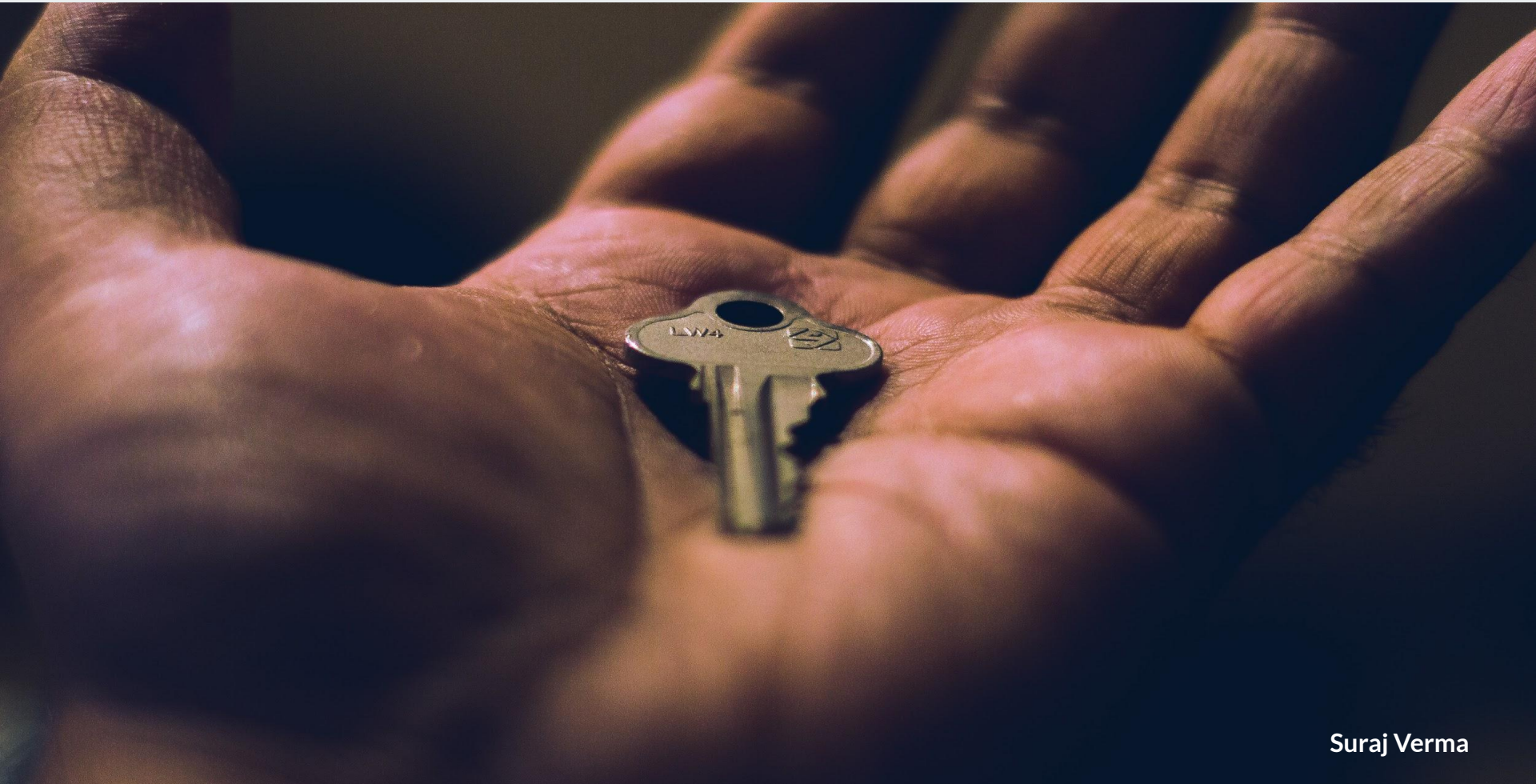
Secrets of a Good Software Engineer



Suraj Verma

Secrets of a Good Software Engineer

1. **Analytical problem solving skills** which is the ability to comprehend the problem and share a common understanding of the problem and/or solution with others.

2. **Technical communication** which is the ability to verbalise the solution and/or approach without reciting the entire code.

3. **Non-technical communication** which is the ability to work with other people and be empathetic towards others.

4. Refer the official documentation and adhere to **best practices** by reading blogs and staying in tune with the latest standards/releases.

5. Working together with people by pairing or mobbing and **HAVE FUN!!**

How To Problem Solve Before Code

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The most powerful tool to possess in software development is problem solving which helps to create a mental/visual model of the solution and communicate that model with others.

1 | Comprehend the problem as a whole

2 | Break down the problem in to multiple blocks

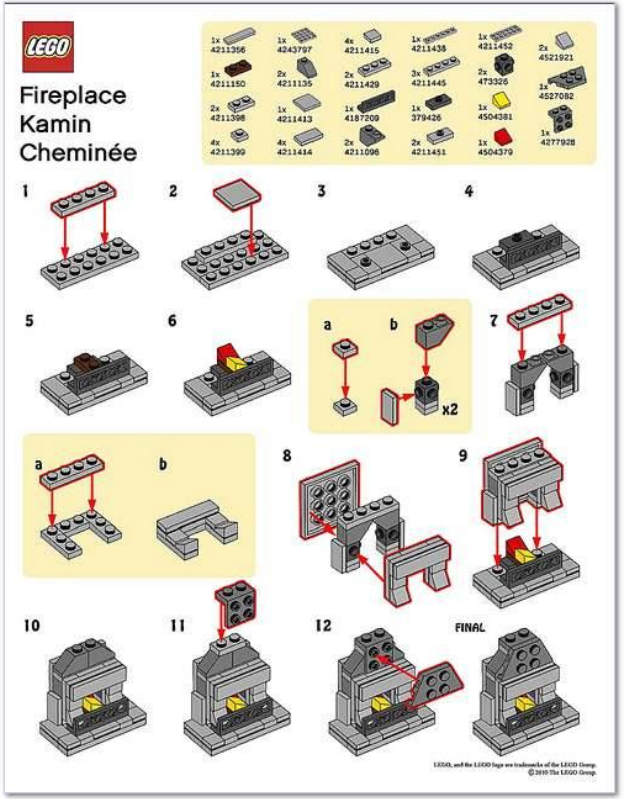
3 | Determine the input and output of each block

4 | Determine the functionality of each block

5 | Link the individual blocks together

6 | Determine an order of sequence

7 | Run through the blocks



How To Problem Solve Before Code

Build an application that accepts two numbers and returns the resulting mathematical operation on the two numbers. The operations include add, subtract, multiply and divide.

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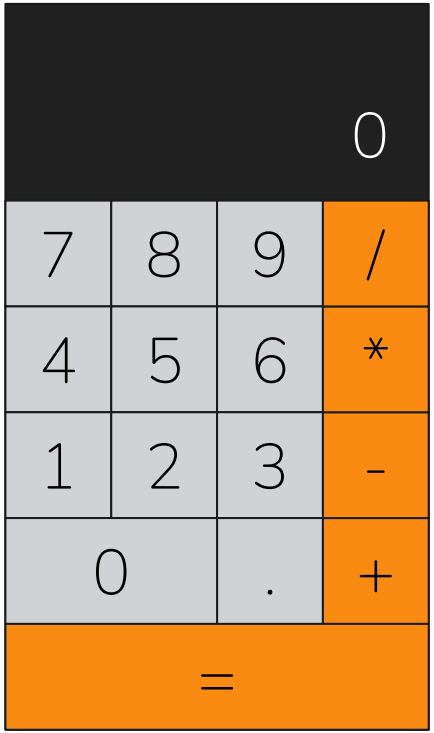

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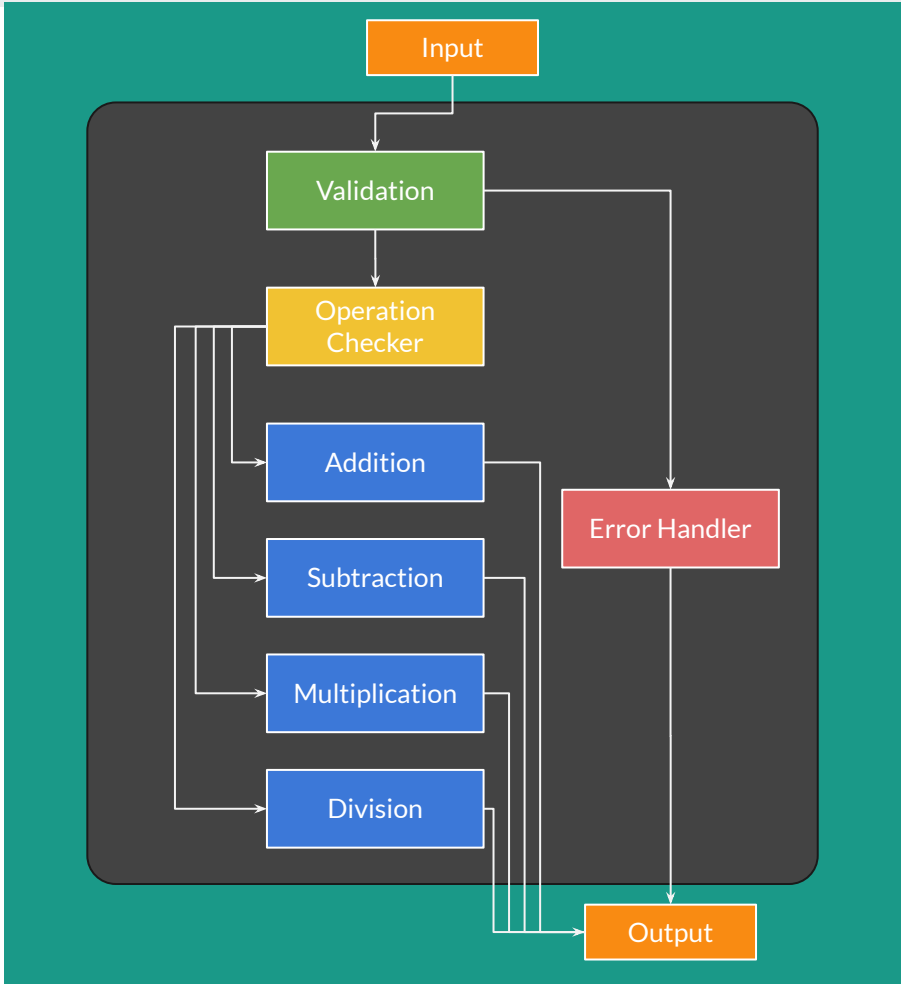

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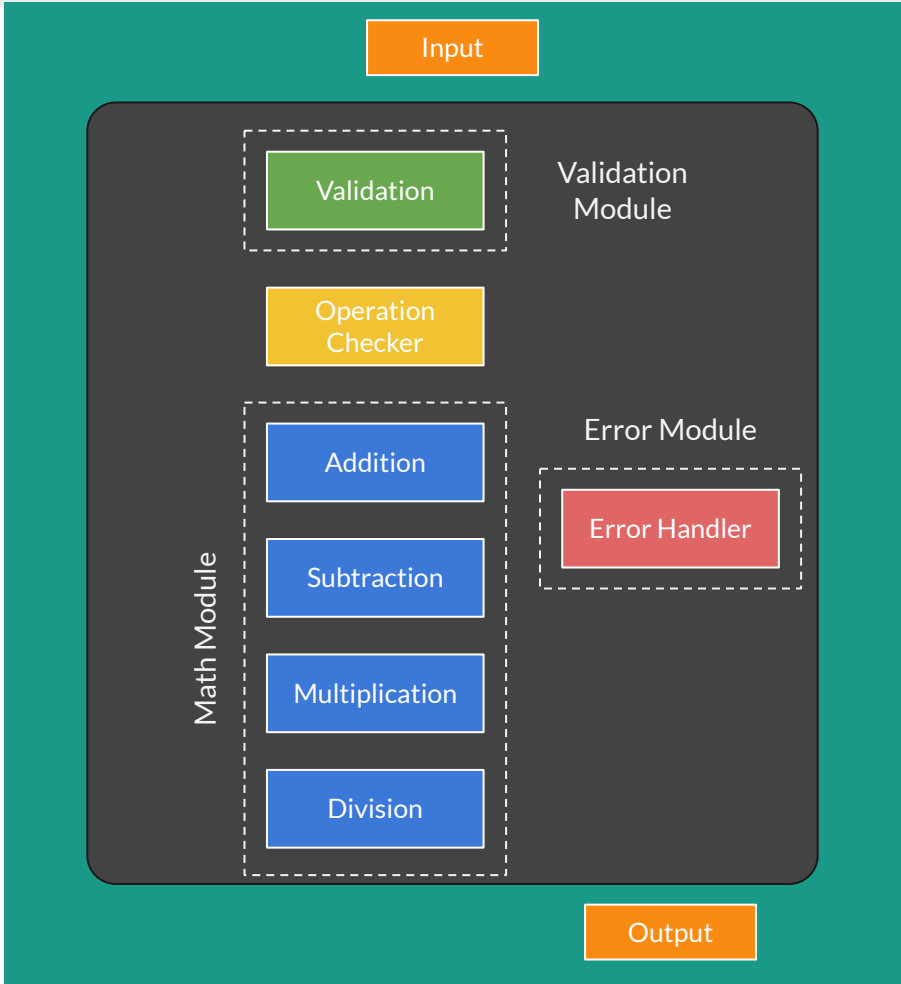

What is coding in a nutshell?

Data + Functionality

In all cases coding is the process in which we apply some **functionality** to some **data** and get new data or new functionality