Type theory

$$\frac{prop}{proof} = \frac{type}{code}$$

$P, \quad Q$ propositions

$$P \wedge Q \qquad\qquad P \times Q \; \leftarrow \text{Cartesian product}$$

$$P \vee Q \qquad\qquad P + Q \; \leftarrow \text{disjoint union}$$

$$P \wedge (Q \vee R) \longrightarrow P \wedge Q$$