**entity** binary\_adder **is**

**port** (Sum: **out** Std\_Logic\_Vector (3 **downto** 0); C\_**out**: Std\_Logic);

A, B: **in** Std\_Logic\_Vector (3 **downto** 0): C\_in: **in** Std\_Logic);

**end** binary\_adder;

**architecture** Dataflow **of** binary\_adder **is**

**begin**

C\_out & Sum <= A + B + ("'000"&C\_in);

**end** Dataflow;