

```
1  /* divided_clocks[0] = 25MHz, [1] = 12.5Mhz, ...
2  [23] = 3Hz, [24] = 1.5Hz, [25] = 0.75Hz, ... */
3  module clock_divider (clock, divided_clocks);
4  input logic clock;
5  output logic [31:0] divided_clocks = 0;
6
7  always_ff @(posedge clock) begin
8  divided_clocks <= divided_clocks + 1;
9  end
10
11 endmodule
```