

```
49     elsif price >= 40 then
50         priceH <= "00100";
51         priceL <= price - 40;
52     elsif price >= 30 then
53         priceH <= "00011";
54         priceL <= price - 30;
55     elsif price >= 20 then
56         priceH <= "00010";
57         priceL <= price - 20;
58     elsif price >= 10 then
59         priceH <= "00001";
60         priceL <= price - 10;
61     else
62         priceH <= "00000";
63         priceL <= price(4 downto 0);
64     end if;
65 end process;
```

```
66
67 -----
68 -- BCD converter for sum input signal
69 -----
```

```
70 process(sum)
71 begin
72     if sum >= 60 then
73         sumH <= "00110";
74         sumL <= sum - 60;
75     elsif sum >= 50 then
76         sumH <= "00101";
77         sumL <= sum - 50;
78     elsif sum >= 40 then
79         sumH <= "00100";
80         sumL <= sum - 40;
81     elsif sum >= 30 then
82         sumH <= "00011";
83         sumL <= sum - 30;
84     elsif sum >= 20 then
85         sumH <= "00010";
86         sumL <= sum - 20;
87     elsif sum >= 10 then
88         sumH <= "00001";
89         sumL <= sum - 10;
90     else
91         sumH <= "00000";
92         sumL <= sum(4 downto 0);
93     end if;
94 end process;
```