

```
1  case is_Chart is  
2    when IN_A =>  
3      if a = 1.0 then  
4        is_Chart_next <= IN_B;  
5        b_reg_next <= a + 1.0;  
6      elsif a = 2.0 then  
7        is_Chart_next <= IN_B;  
8        b_reg_next <= a + 1.0;  
9      else  
10       is_Chart_next <= IN_B;  
11       b_reg_next <= a + 1.0;  
12     end if;  
13   when others =>  
14     null;  
15 end case;
```
