```
1: --This package body includes the decleration to the protected object Acc_Storage_t.
2: --The protected object Acc_Storage_t is between the task accelerometerTask and control_program task.
3:
4: package body Acc_Storage_pk isS
5:     protected body Acc_Storage_t is
6:
7:         -- The procedure upright set the car_state varibale to state.
8:         procedure upright( state : in boolean ) is
9:         begin
10:            -- The private variable car_state gets the state value from the procedure.
11:            car_state := state;
12:         end upright;
13:
14:         -- The function get_upright returns the boolean value to car_state.
15:         function get_upright return boolean is
16:         begin
17:            return car_state;
18:         end get_upright;
19:
20:     end Acc_Storage_t;
21: end Acc_Storage_pk;
22:
23:
```