

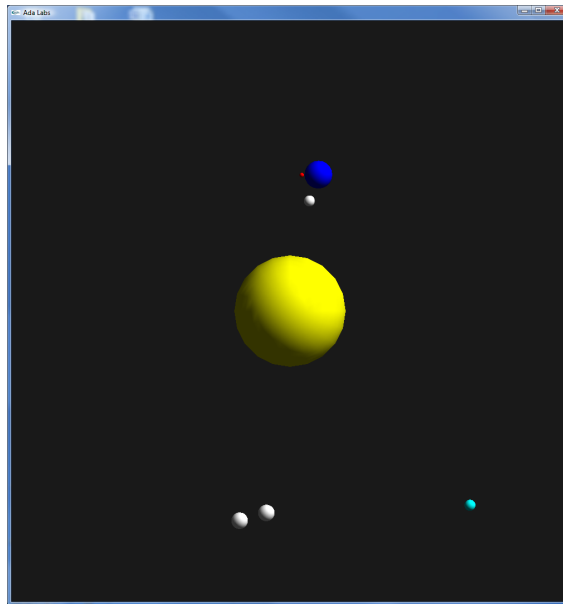
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## Lab 10 - Access

The Solar\_System API is still not working

AdaCore

The purpose of this exercise is to use Access types to avoid passing Bodies as in out everywhere.



**Figure 1:** Expected result

### Question 1

Define a type `Body_Access_T` as an access type to all `Body_T`.

### Question 2

Implement `Get_Body` as defined in the specification of the `Solar_System` package.

Use `'Access` to return the access to the expected body.

### Question 3

Modify `Init_Body` procedure as defined in the specification of the `Solar_System` package.

Update initialization calls in the `Main` procedure.

### **Question 4**

Modify the Turns\_Around field of Body\_T type to be a Body\_Access\_T.

### **Question 5**

Modify Move procedure as defined in the specification of the Solar\_System package.

**It's compiling now!**

### **Question 6**

What is the problem with accessibility check? Try to fix it.

### **Question 7**

How to avoid using 'Unchecked\_Access?