
Lab 7 - Packages

The Solar_System API

AdaCore

The purpose of this exercise is to factor out the code for stars into a package.

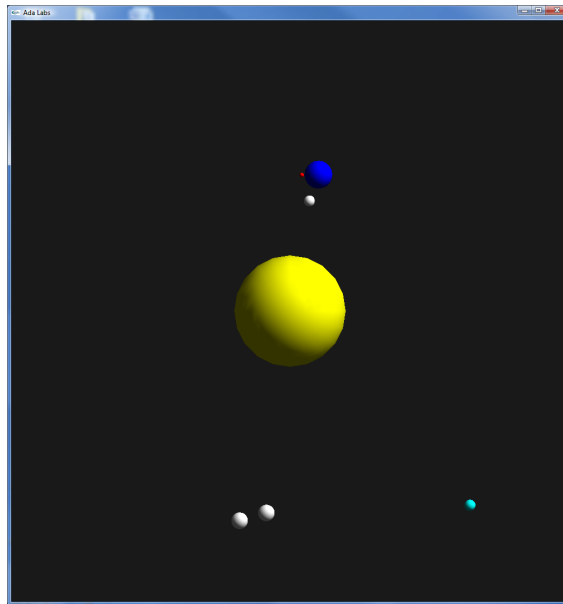


Figure 1: Expected result

Question 1

From the exercise *03_subprograms*, the structures and subprograms are now declared in an external package, called `Solar_System`.

Implement the subprogram `Move_All` that moves all the objects of a solar system.

Use the `Solar_System` package to obtain a behavior similar to the exercise *03_subprograms*.

Question 2

Create a child package `Graphics` of `Solar_System` to handle graphical functionalities like `Draw_Body` procedure.

Implement in this package a procedure `Draw_All` that will call `Draw_Body` for each object.

Question 3

Create a black hole (not visible) rotating around the sun, and create two objects moving around that invisible point.