Using the JPL Horizons Ephemeris Website

http://ssd.jpl.nasa.gov/?horizons

Choose the web-interface
This example will show you how to reproduce the coordinates listed for the Earth-Sun vector in Table 2 of the lab handout.

First choose “change” next to Ephemeris Type
We want the Cartesian vectors \((x,y,z)\) so choose the “Vector Table” option.

Then hit “Use Selection Above” button.
Next change the Target Body.

We want the x, y, z position of the Sun, so type in “Sun” and hit Search.
Now change the range of dates.

Put in the range of dates you want and click “Use Specified Times” button.

Available time span for currently selected target body: BC 3000-Feb-23 to AD 3000-May-06 CT.

Times may be specified as calendar dates and optionally times (e.g. "YYYY{BC|AD}-MM-DD {hh:mm}", where items in curly braces () are optional) or Julian dates (e.g. "JD DDDDDDD.DDDDD"). For years earlier than 1000, be sure to append 'AD' (or 'BC' as appropriate). All times are CT for VECTORS tables.

See the HORIZONS documentation for accepted formats and advanced capabilities. Allowable time-spans for all bodies are available on a separate page.
Now we need to alter the Table Settings

Check to make sure you’ve chosen these options.
Final input parameters, feel free to change the display/output settings to suit your needs.
These match Table 2.

<table>
<thead>
<tr>
<th>JDCT</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VX</td>
<td>VY</td>
<td>VZ</td>
</tr>
</tbody>
</table>

```plaintext

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