Lab 1.4 Assignment:

1. **At least five teapots:**
   We can create five teapots using the model, view and projection matrices for all of them, with one being the root and others connected in a one-to-one and one-to-many relationship.

2. **Show one to one relationship:**
   The third teapot in the picture is connected to the second one via **local3 = rotate_y_deg(local2, rotatez);** & **mat4 global3 = global2 * local3;** here, local2 and global2 belong to the second teapot are being sent to the third one.

3. **One to many relationship:**
   The root teapot is connected to the second one and the two others on its either sides depicting a many-to-one relationship.

4. **Keyboard control for translation of root object:**
   In the **keypress function** of freeglut, we can add the code:

```
if (key == 'r') {
//Translate the base, etc.
trans = trans + vec3(1.0f, 0.0f, 0.0f);
}
```

   According to the key values, the root object will translate, moving the others with it too.