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| **Using Code to Perform Transformations** |
| Executes code that is provided and interprets resultsWhen I click on the green flag, the *Plotting Triangles* application draws a blue triangle on a coordinate plane. | Reads and interprets pseudocode, completing or altering as neededTable  Description automatically generatedThis subprogram identifies the coordinates of the vertices. It is called up in the main program so the sprite knows what points to move to. | Reads and interprets code for translations, completing or altering as neededHow did you write a subprogram that would translate the triangle vertically?Graphical user interface, application  Description automatically generatedThis subprogram shifts the triangle 100 units to the right. To move it 100 units to the left, I would change the **100** to **–100** in this subprogram. | Writes and debugs code to perform translations on the coordinate plane Graphical user interface, application  Description automatically generatedI used the same blocks as the subprogram to translate horizontally but I made a new variable **translateYBy** and changed the *y*-coordinates instead of the *x*-coordinates. |
| **Observations/Documentation** |
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