# **Commands Brief**

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| **Command** | **Description** |
| penup | Lifts the pen from the canvas, so that movement does not get shown. |
| pendown | Places the pen down on the canvas so movement gets shown as a drawn line. |
| turnleft <degrees> | Turn <degrees> to the left. |
| turnright <degrees> | Turn <degrees> to the right. |
| forward <distance> | Move forward the specified distance. |
| backward <distance> | Move backwards the specified distance. |
| black | Sets the output pen colour to black. |
| green | Sets the output pen colour to green. |
| red | Sets the output pen colour to red. |
| white | Sets the output pen colour to white. |
| reset | * Resets the canvas to its initial state with turtle pointing down. * Does not clear the display. * Sets the pen down on the canvas. |
| clear | Clears the display but turtle stays in the same position. |
| Save | Allows the user to save the image and the set of commands that the user has typed in. |
| Load | Allows the user load the saved image and/or commands. |
| about | Draws a simple graphic on the canvas and reports the version number of the class along with my name. |
| square <length> | Draws a square of specified length. The turtle, however, remains in the original position. |
| pencolour <r>,<g>,<b> | Makes the RGB colour from <r>,<g> and <b> parameters and sets the pencolour to the made colour. |
| penwidth <width> | Sets the pen’s width to specified width. |
| triangle <side> | Draws equilateral triangles of specified side. |
| triangle <s1>,<s2>,<s3> | Draws a triangle of specified sides. |

Notes:

* The following commands are parametric commands and must be provided parameters:
  + turnleft,
  + turnright,
  + forward,
  + backward,
  + square,
  + pencolour,
  + penwidth and triangle
* The said parameters must be integers and must not be non-sensible values.
  + For pencolour
    - 0<=parameters<=255
  + For rest
    - parameters > 0
* The commands square and triangle draw according to the turtle’s direction, thus, allowing to draw them in any angles.