Test case for AVC project – core

* For the core part of the project the robot should follow the white line to reach the finish position.
* The robot should move according to the bends.
* The robot must not collide with the laid-out objects.

The code-

* The “loadImageToMatrix” function in the code first loads the image into matrix that the robot can view through its camera.
* The “compressImage” compresses the image into 4 colors. The only colors that the image contains are White, Green, Yellow and Red, hence it is compressed to these colors.
* For each individual pixel, the ratio of red to green and ratio of red to blue are taken.
* The “findError” function in the code calculates the error of the path or how centered the white line is in the image.
* The “main” function in the code determines the speed and turns the robot would take depending on the calculated “error”.

Table for test cases

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| Speed |  | Observation |
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