

Project Idea Submission Form

Student Ids (In ascending order)
1505002 1505057
Project Name
DX Ball
Brief Project Description (We expect you to discuss here a very top level overview of your project, e.g., what sensor/environment values you are reading, which sensor(s) you are using to do that, what do you plan to do with these sensor/input readings, what processing/algorithm you run on these inputs, what actuators/output devices you are using, what the actuator(s)/output do/mean, etc. Do not discuss the motivation of the project if it is obvious!)
<p>This is one of the most popular games of our childhood. It is a single player game. The player controls a paddle at the bottom and deflects a single ball, hitting different blocks on the top of the screen without having the ball fall below the screen. Clearing all the blocks results in completing the level and going to the next.</p> <p>The game will be visualized in 2x2 dot-matrix bi-color display where there will be different colors for different elements of the game. We will be using an accelerometer sensor to control the bottom paddle. And there will be small gameplay sounds.</p>

<p>List of sensors/input devices used (With specific name, model number, etc. You must provide the link from any BD online-shop and check their availability. You can omit the model name and number in case of rudimentary items e.g., buttons)</p>
<p>Name : 6 DOF Accelerometer Gyroscope (MPU-6050)</p> <p>Link:https://www.techshopbd.com/product-categories/intertial/2188/6-dof-accelerometer-gyroscope-techshop-bangladesh</p>
<p>List of Actuators/output devices used (With specific name, model number, etc. You must provide the link from any BD online-shop and check their availability. You can omit the model name and number in case of rudimentary items e.g., LEDs)</p>
<p>Name : Dot Matrix Bi-Color 8x8</p> <p>Link:https://www.techshopbd.com/product-categories/dot-matrix/280/dot-matrix-bi-colour-big-techshop-bangladesh</p> <p>Name : Buzzer</p> <p>Link:https://www.techshopbd.com/product-categories/buzzers/177/buzzer-techshop-bangladesh</p>
<p>Miscellaneous & Discussion (If Any)</p>