Nama: Agung Sulaksono Ramdhani

NIM: 1103194071

Tutorial 1: Your First Simulation in Webots

Figure 1 creating new project

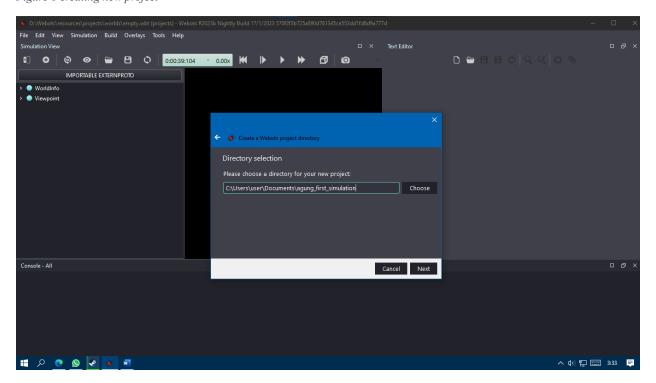


Figure 2 A new Project Created

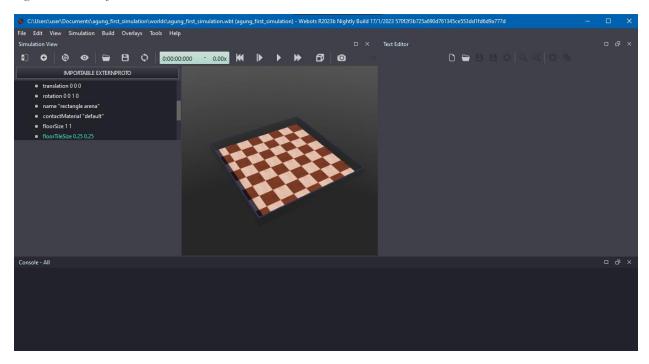


Figure 3 Make 4 wooden boxes at every corner

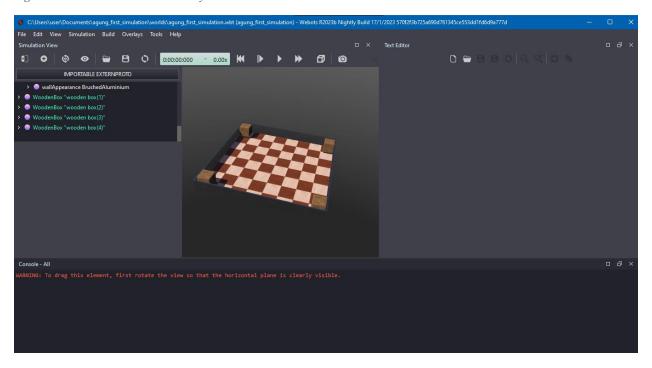


Figure 4 Insert e-puck Robot to world

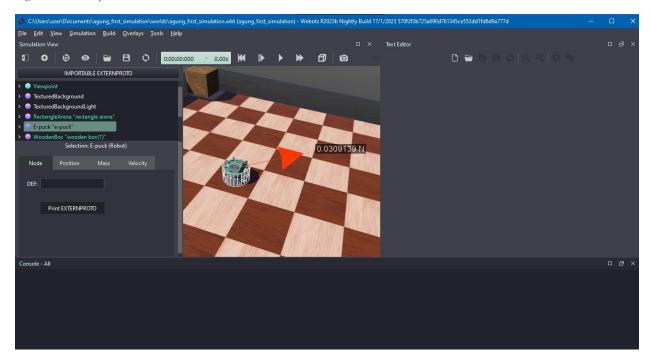


Figure 5 Making a new controller to e-puck

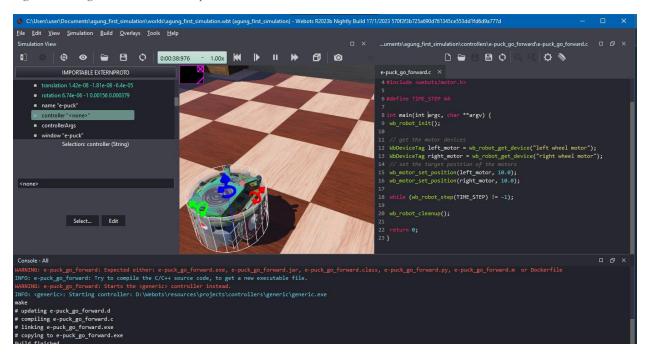
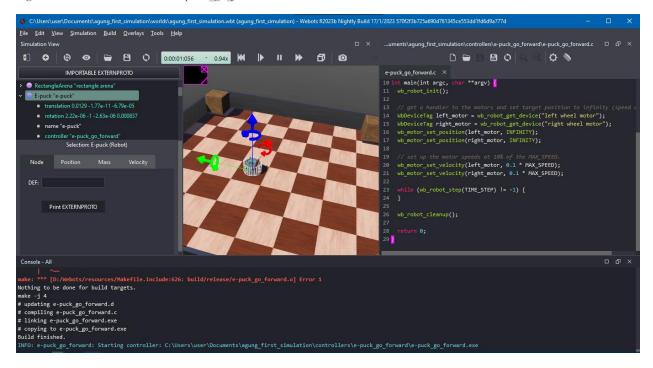


Figure 6 a new controller named e-puck_go_forward



Tutorial 2: Modification of the Environment

Figure 7 save and load a existing world named obstacles

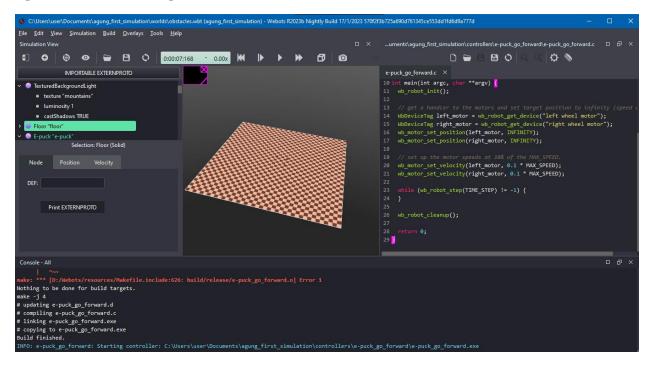
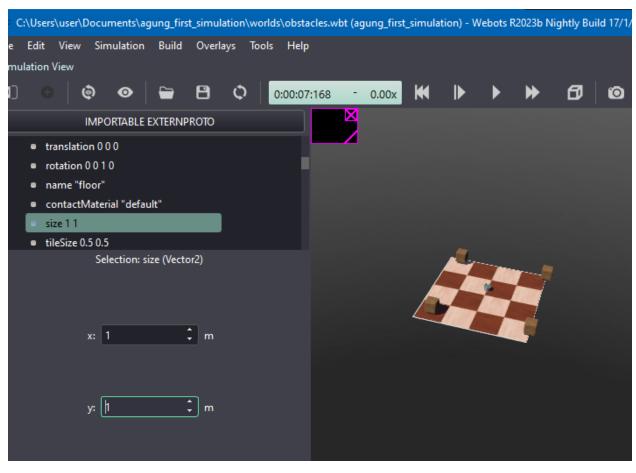


Figure 8 Modifying the floor



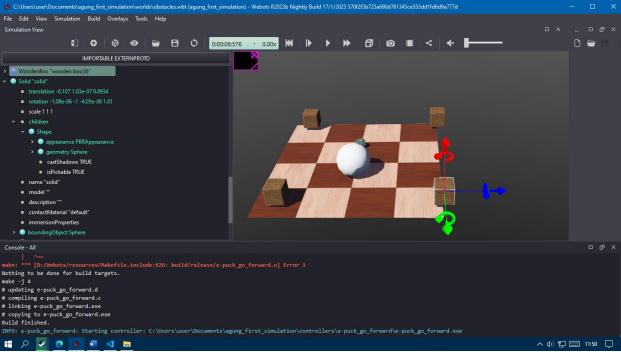


Figure 9 Creating a ball node

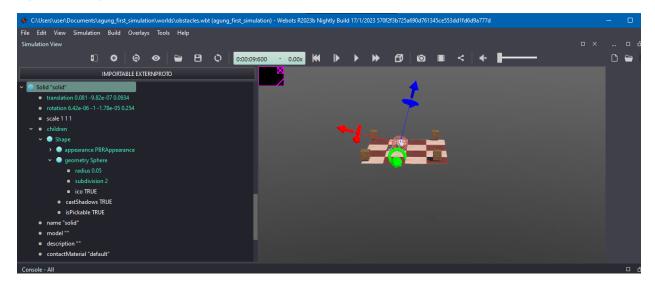
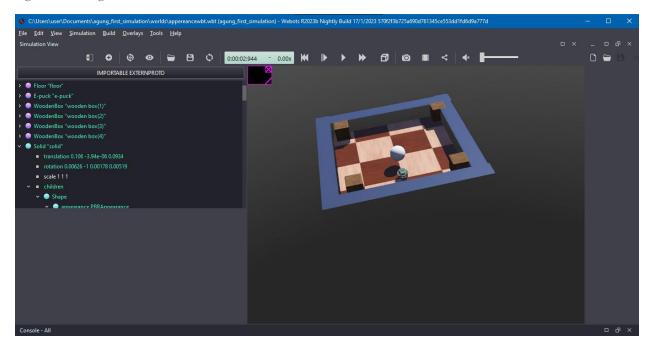
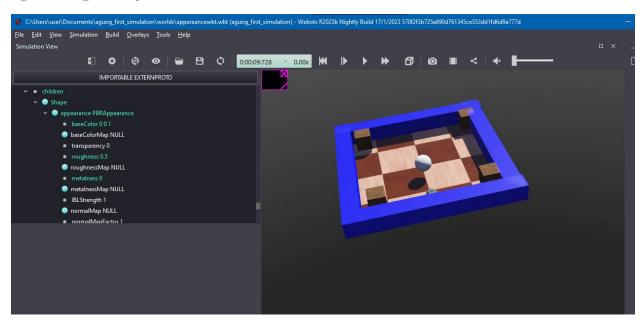


Figure 10 creating a wall



Tutorial 3: Appearance

Figure 11 change colour of walls



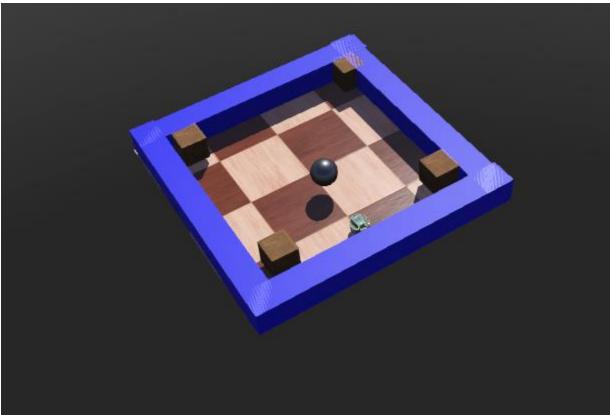


Figure 12 Change colour of ball node using downloaded red brick texture

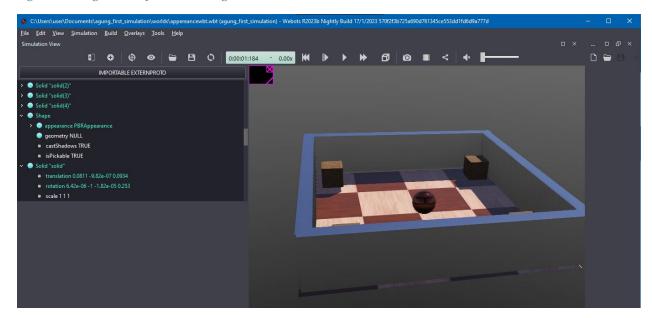
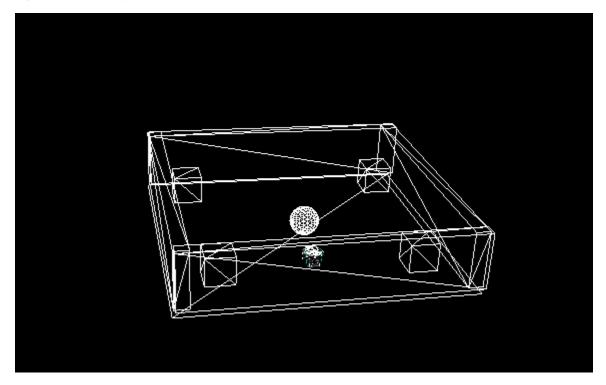


Figure 13 View of wireframe render



Tutorial 4: More about Controllers

Figure 14 Program a controller

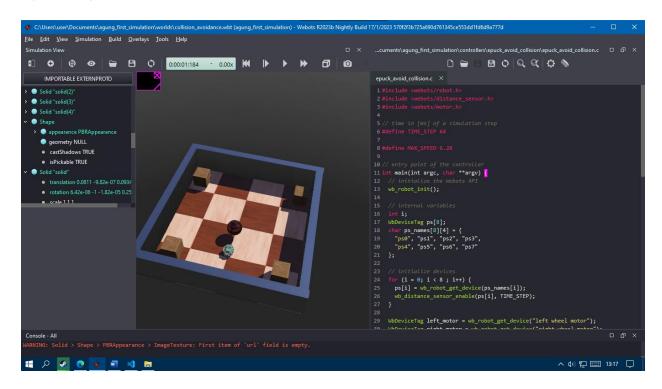
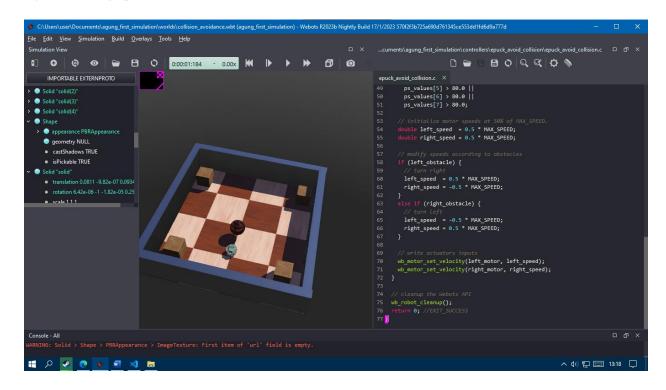
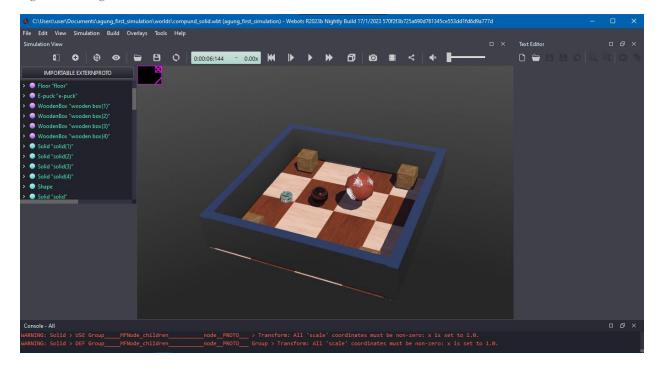


Figure 15 creating e-puck new controller



Tutorial 5: Compound Solid and Physics Attributes

Figure 16 making a dumbbell node



Tutorial 6: 4-Wheeled Robot

Figure 17 Creating a 4 wheeled robot from scratch

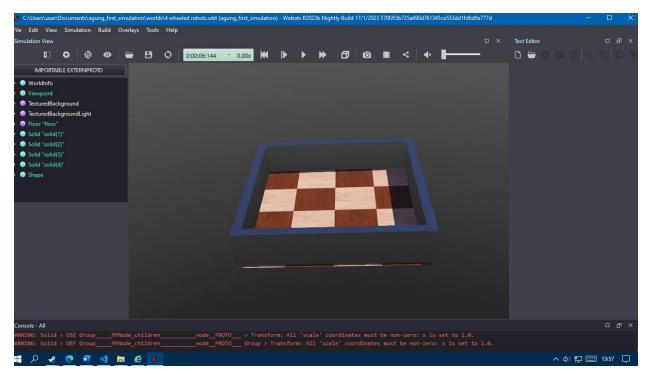


Figure 18 4 wheeled robot

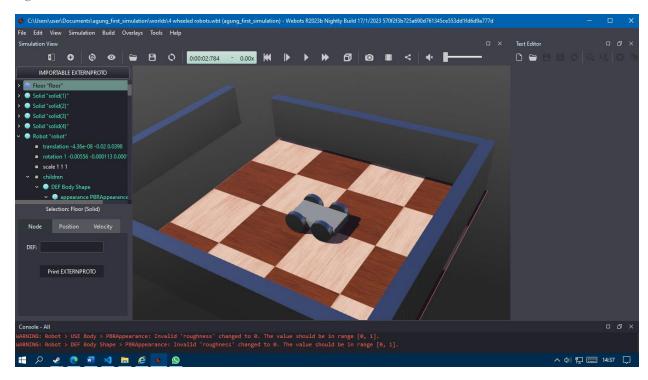
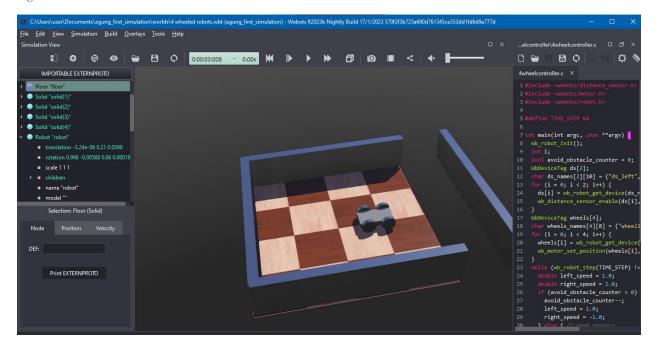
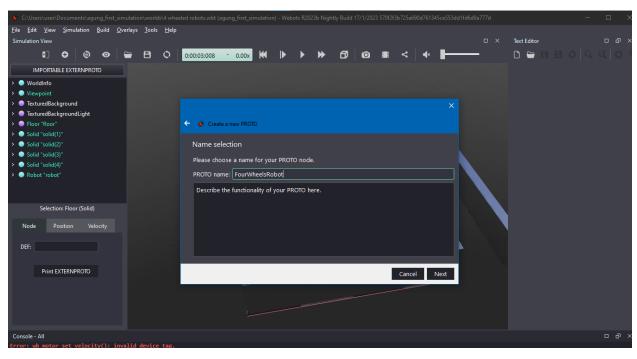


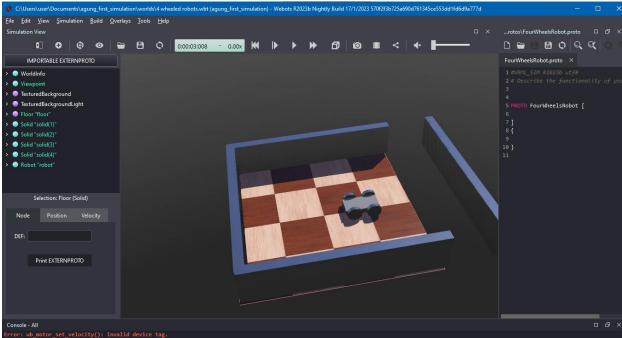
Figure 19 insert a controller to robot



Tutorial 7: Your First PROTO

Figure 20 Creating a proto using existing robot





Tutorial 8: the Supervisor

Figure 21 creating base and changed the size to 10x10

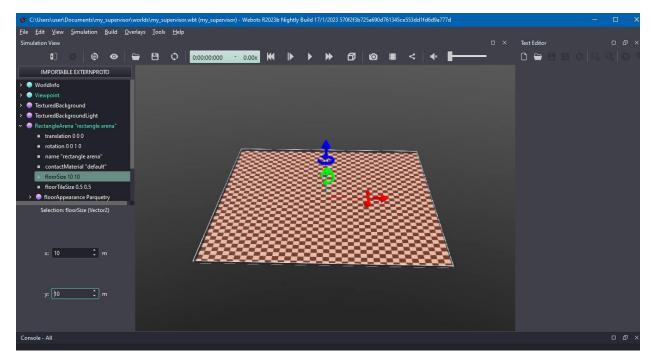


Figure 22 add a bb8 robot to world

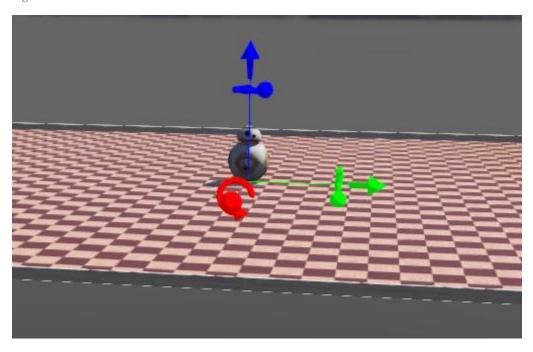


Figure 23 creating a supervisor robot

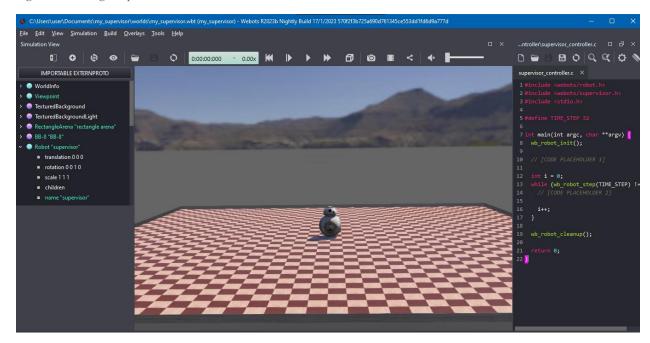
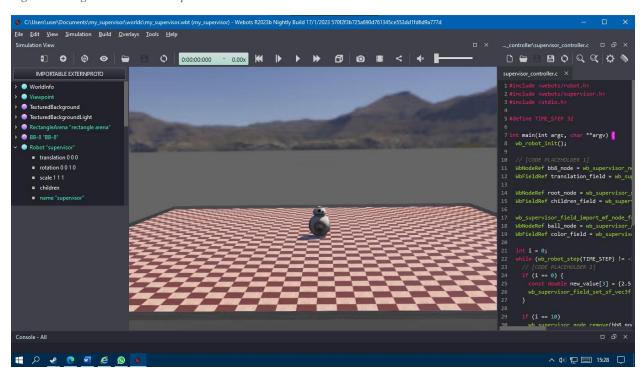


Figure 24 using created robot as supervisor to bb8 robot



Tutorial 9: Using ROS

It can be seen that in the tutorial ROS is installed using linux and there is no way to install it on windows.