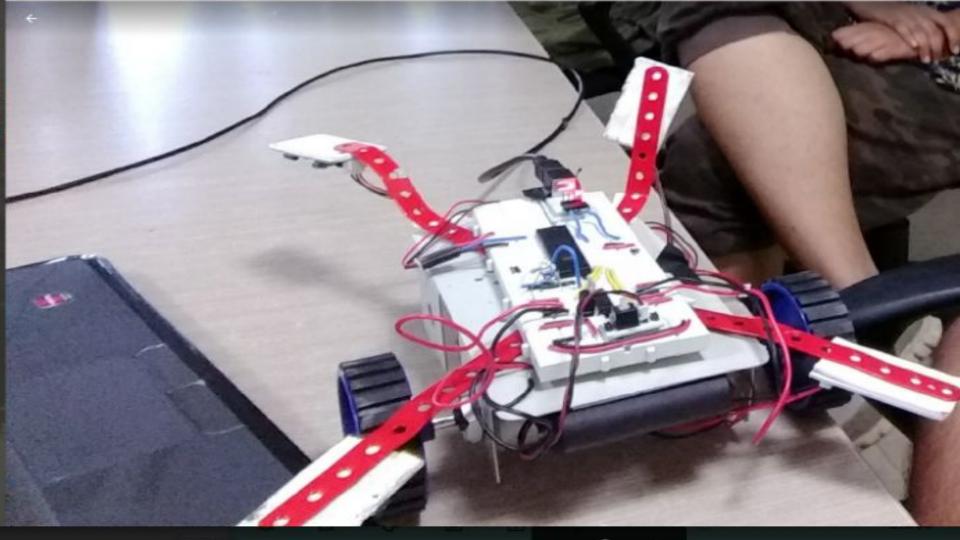
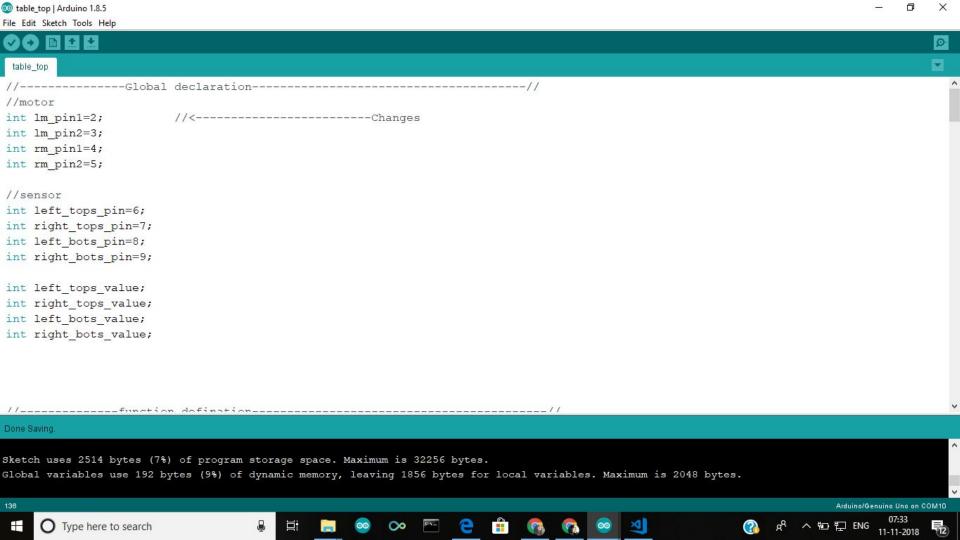
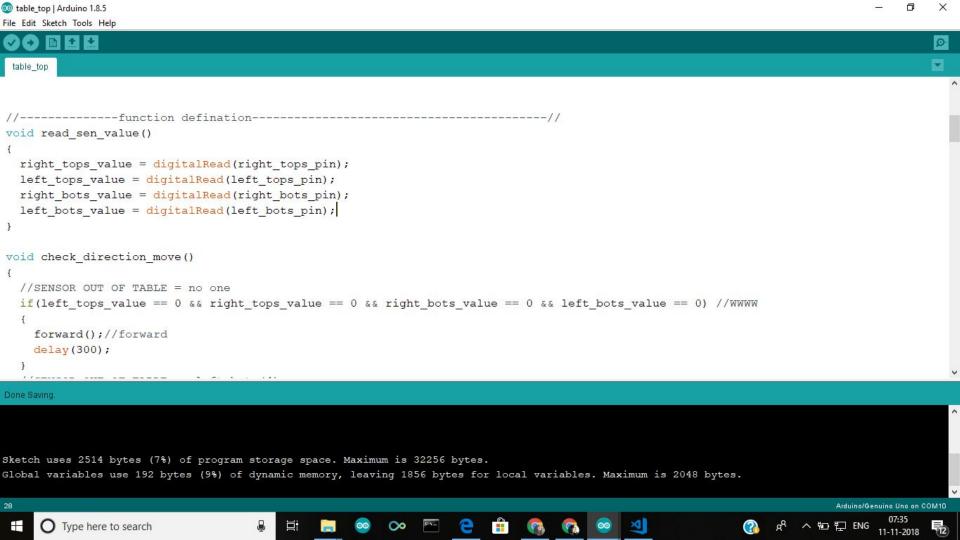
TABLE TOP

Robotics Club, IIT Palakkad



| # | Sensor 1 | Sensor 2 | Sensor 3 | Sensor 4 | Action of robot | Left Motor | Right |
|---|-------------|-------------|-------------|-------------|------------------------|---------------------------|---------------------------|
| 0 | LOW | LOW | LOW | LOW | Forward | Forward | Forward |
| 1 | LOW | LOW | LOW | HIGH | Turn Right | Forward | Reverse |
| 1 | LOW | LOW | HIGH | LOW | Turn Left | Reverse | Forward |
| 1 | LOW | HIGH | LOW | LOW | Turn Left | Reverse | Forward |
| 1 | HIGH | LOW | LOW | LOW | Turn Right | Forward | Reverse |
| 2 | LOW | LOW | HIGH | HIGH | Forward and Turn Left | Forward and Reverse | Forward Forward |
| 2 | LOW | HIGH | HIGH | LOW | Turn Left and Forward | Reverse and Forward | Forward and Forward |
| 2 | HIGH | LOW | LOW | HIGH | Turn Right and Forward | Forward and Forward | Reverse and Forward |
| 2 | HIGH | HIGH | LOW | LOW | Back and Turn Left | Reverse and Reverse | Reverse and Forward |
| 3 | LOW | HIGH | HIGH | HIGH | Turn Left and Forward | Reverse and Forward | Forward and Forward |
| 3 | HIGH | LOW | HIGH | HIGH | Turn Right and Forward | Forward and Forward | Reverse and Forward |
| 3 | HIGH | HIGH | LOW | HIGH | Back and Turn Left | Reverse and Reverse | Reverse and Forward |
| 3 | HIGH | HIGH | HIGH | LOW | Back and Turn Right | Reverse and Forward | Reverse and Reverse |





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File Edit Sketch Tools Help
 table_top §
  //SENSOR OUT OF TABLE = left bot (4)
  else if(left tops value == 0 && right tops value == 0 && right bots value == 0 && left bots value == 1)//WWWB
    forward();//forward
    delay(300);
    right();//right
    delay(300);
  //SENSOR OUT OF TABLE = right bot (3)
  else if(left tops value == 0 && right tops value == 0 && right bots value == 1 && left bots value == 0)//WWBW
    forward();//forward
    delay(300);
     left();//left
    delay(300);
  //SENSOR OUT OF TABLE = right bot, left bot (3,4)
  also if/laft tone value -- 0 ss right tone value -- 0 ss right hote value -- 1 ss laft hote value -- 11//WWRR
                                                                                                             Arduino/Genuino Uno on COM10
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                                                                                                                                          File Edit Sketch Tools Help
 table_top
  //SENSOR OUT OF TABLE = right bot, left bot (3,4)
  else if(left tops value == 0 && right tops value == 0 && right bots value == 1 && left bots value == 1)//WWBB
    forward();//forward
    delay(300);
  //SENSOR OUT OF TABLE = right top (2)
  else if(left tops value == 0 && right tops value == 1 && right bots value == 0 && left bots value == 0)//WBWW
    reverse();//reverse
    delay(300);
    left();//left
    delay(300);
  //SENSOR OUT OF TABLE = right top, left bot (2,4)
  else if(left tops value == 0 && right tops value == 1 && right bots value == 0 && left bots value == 1)//WBWB
   STOP();//STOP
   delay(300);
Sketch uses 2514 bytes (7%) of program storage space. Maximum is 32256 bytes.
                                                                                                                               Arduino/Genuino Uno on COM10
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File Edit Sketch Tools Help
 table_top
  //SENSOR OUT OF TABLE = right top, right bot (2,3)
  else if(left tops value == 0 && right tops value == 1 && right bots value == 3 && left bots value == 0)//WBBW
    left();//left
    delay(300);
   //SENSOR OUT OF TABLE = right top, right bot, left bot (2,3,4)
  else if(left tops value == 0 && right tops value == 1 && right bots value == 1 && left bots value == 1)//WBBB
    left();//left
    delay(300);
  //SENSOR OUT OF TABLE = left top (1)
  else if(left tops value == 1 && right tops value == 0 && right bots value == 0 && left bots value == 0)//BWWW
    reverse();//reverse
    delay(300);
    right();//right
    delay(300);
Done Saving.
Sketch uses 2514 bytes (7%) of program storage space. Maximum is 32256 bytes.
                                                                                                                                Arduino/Genuino Uno on COM10
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oo table_top | Arduino 1.8.5
File Edit Sketch Tools Help
 table_top
  //SENSOR OUT OF TABLE = left top, left bot (1,4)
  else if (left tops value == 1 && right tops value == 0 && right bots value == 0 && left bots value == 1)//BWWB
    right();//right
    delay(300);
  //SENSOR OUT OF TABLE = left top, right bot (1,3)
  else if (left tops value == 1 && right tops value == 0 && right bots value == 1 && left bots value == 0)//BWBW
    STOP();//STOP
    delay(300);
  //SENSOR OUT OF TABLE = left top, right bot, left bot (1,3,4)
  else if (left tops value == 1 && right tops value == 0 && right bots value == 1 && left bots value == 1)//BWBB
    right();//right
    delay(300);
Sketch uses 2514 bytes (7%) of program storage space. Maximum is 32256 bytes.
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 table_top
  //SENSOR OUT OF TABLE = left top, right top (1,2)
  else if(left_tops_value == 1 && right_tops_value == 1 && right_bots_value == 0 && left_bots_value == 0)//BBWW
    reverse();//reverse
    delay(300);
    right();//right
    delay(300);
  //SENSOR OUT OF TABLE = left top, right top, left bot (1,2,4)
  else if(left_tops_value == 1 && right_tops_value == 1 && right_bots_value == 0 && left_bots_value == 1)//BBWB
    right();//right
    delay(300);
Done Saving.
                                                                                                                         Arduino/Genuino Uno on COM10
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 table_top
  //SENSOR OUT OF TABLE = left top, right top, right bot (1,2,3)
  else if (left tops value == 1 && right tops value == 1 && right bots value == 1 && left bots value == 0)//BBBW
   left();//left
   delay(300);
  //SENSOR OUT OF TABLE = left top, right top, right bot, left bot (1,2,3,4)
  else if (left tops value == 1 && right tops value == 1 && right bots value == 1 && left bots value == 1)//BBBB
   STOP();//STOP
   delay (300);
void forward()
  digitalWrite(lm pin1, 1);
                                                                                                                        Arduino/Genuino Uno on COM10
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