UFOP (Universidade Federal de Ouro Preto)

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GRUPO 1

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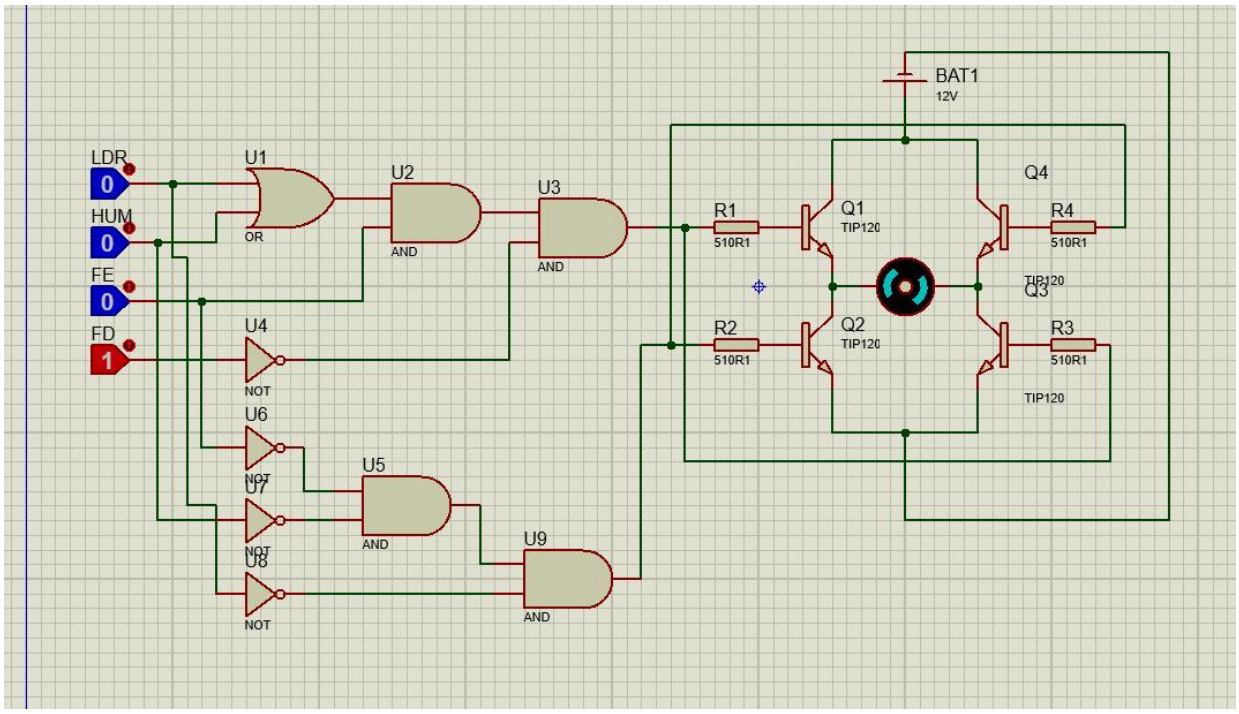
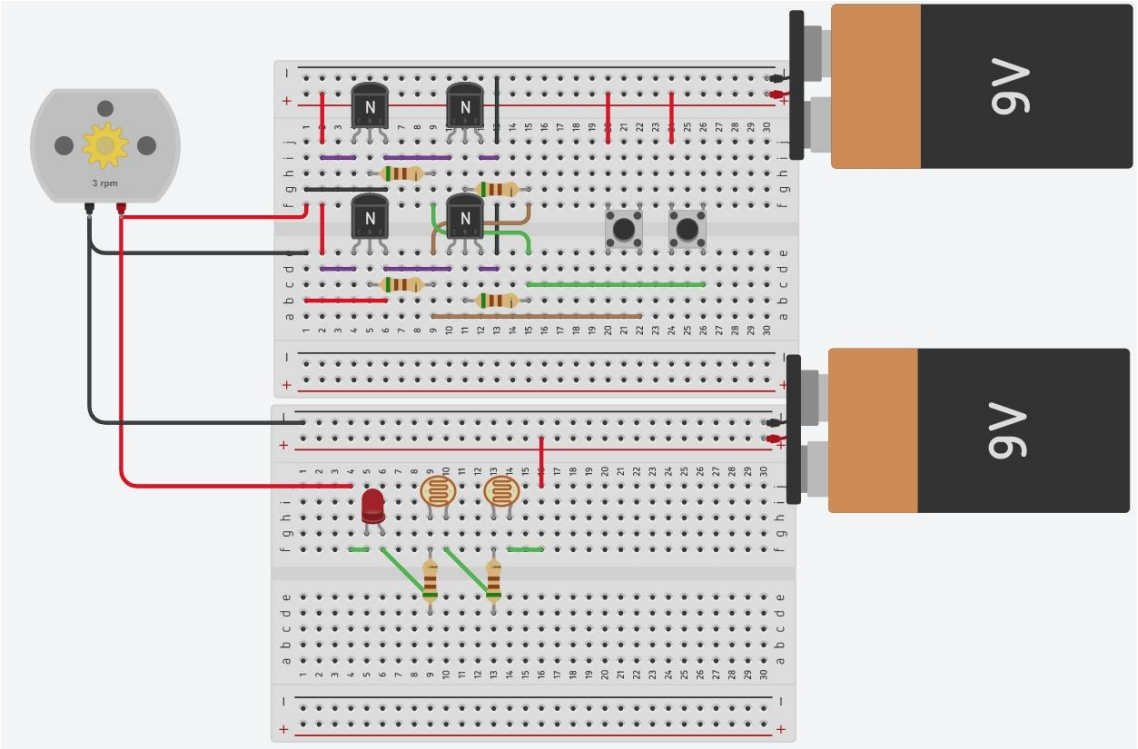
7 de março de 2021


BAT1
12V
LDR
0
HUM
0
FE
0
FD
1
U1
OR
U2
AND
U3
AND
U4
NOT
U6
NOT
U5
AND
U7
NOT
U8
NOT
U9
AND
R1
510R1
Q1
TIP120
Q4
R4
510R1
Q3
TIP120
R2
510R1
Q2
TIP120
R3
510R1
TIP120


3 rpm
9V
9V

Verilog

```
repeat (16) begin
    i = i + 1;
    if (i == 0 || i == 1..)
        $monitor("%d   %b   %b   %b   %b   %b   %b", $time, ld, u, d , e, A, B);
end
initial begin
    i = 0;
end
repeat (16) begin
    i = i + 1;
    if (i == 0  i == 1  i ==4  i==6i==8i==10i==12||i=14)
        $monitor("%d   %b   %b   %b   %b   %b   %b", $time, ld, u, d , e, A, B);
initial begin
    i = 0;
end
repeat (16) begin
    i = i + 1;
    if (i == 0  i == 1  i ==4  i==6i==8i==10i==12||i=14) begin
        $monitor("%d   %b   %b   %b   %b   %b   %b", $time, ld, u, d , e, A, B);
        end
end
initial begin
    i = 0;
end
repeat (16) begin
    i = i + 1;
    if (i == 0 |  i == 1 | i ==4 | i==6 | i==8  | i ==10 | i==12 |i=14) begin
        $monitor("%d   %b   %b   %b   %b   %b   %b", $time, ld, u, d , e, A, B);
        end
end
```

```
initial begin
  for (i = 0; i < 16;  i=i+1) begin
    if (i == 0 |  i == 1 | i ==4 | i==6 | i==8  | i ==10 | i==12 |i=14) begin
       $monitor("%d   %b   %b   %b   %b   %b   %b", $time, ld, u, d , e, A, B);
       end
  end
end
```