**EDGE AVOIDER CODE**

int ls=0,rs=0;

void setup() {

// put your setup code here, to run once:

pinMode(2,OUTPUT);

pinMode(4,OUTPUT);

pinMode(5,OUTPUT);

pinMode(7,OUTPUT);

pinMode(8,INPUT);

pinMode(9,INPUT);

}

void loop() {

// put your main code here, to run repeatedly:

ls = digitalRead(8);

rs = digitalRead(9);

if(ls==LOW&&rs==LOW)

{

forward();

}

else if(ls==LOW&&rs==HIGH)

{

spinleft();

delay(1000);

}

else if(ls==HIGH&&rs==LOW)

{

spinright();

delay(1000);

}

else

{

backward();

}}

void forward()

{

digitalWrite(2,HIGH);

digitalWrite(4,LOW);

digitalWrite(5,HIGH);

digitalWrite(7,LOW);

}

void backward()

{

digitalWrite(2,LOW);

digitalWrite(4,HIGH);

digitalWrite(5,LOW);

digitalWrite(7,HIGH);

}

void left()

{

digitalWrite(2,LOW);

digitalWrite(4,LOW);

digitalWrite(5,HIGH);

digitalWrite(7,LOW);

}

void right()

{

digitalWrite(2,HIGH);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(7,LOW);

}

void halt()

{

digitalWrite(2,LOW);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(7,LOW);

}

void spinleft()

{

digitalWrite(2,LOW);

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(7,LOW);

}

void spinright()

{

digitalWrite(2,HIGH);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(7,HIGH);

}

**OUTPUT:**

