```
int LMotor 1 = 9;
int LMotor 2 = 10;
int RMotor 1 = 5;
int RMotor 2 = 6;
int IR RECEIVER = 17;
void setup() {
  pinMode(RMotor_1, OUTPUT);
  pinMode(LMotor 1, OUTPUT);
  pinMode(RMotor 2, OUTPUT);
  pinMode(LMotor 2, OUTPUT);
}
void loop() {
  int ldrcenter = digitalRead(16);
  int ldrright = digitalRead(15);
  int ldrleft = digitalRead(14);
  int R OBST SENSOR = digitalRead(18);
  int L OBST SENSOR = digitalRead(19);
if (R OBST SENSOR == LOW) {
  move stop();
  delay(500);
  move backward();
  delay(100);
  turn right();
  delay(100);
} else if (L OBST SENSOR == LOW) {
 move stop();
  delay(500);
  move backward();
  delay(100);
  turn left();
  delay(100);
} else {
  if (ldrright == LOW && ldrleft == HIGH && ldrcenter == HIGH) {
    move forward();
    delay(100);
  }
 else if (ldrright == LOW && ldrleft == HIGH) {
    turn right();
    delay(100);
  }
```

```
else if (ldrright == HIGH && ldrleft == LOW) {
    turn left();
    delay(100);
  }
  else if (ldrright == LOW && ldrleft == LOW && ldrcenter == LOW) {
    move stop();
    digitalWrite(IR RECEIVER, HIGH);
  } else {
    move forward();
    delay(100);
 }
  delay(100);
}
void move forward() {
  analogWrite(RMotor 2, 0);
  analogWrite(LMotor 2, 0);
  analogWrite(RMotor 1, 200);
  analogWrite(LMotor 1, 150);
void move backward() {
  analogWrite(RMotor 1, 0);
  analogWrite(LMotor 1, 0);
  analogWrite(RMotor 2, 215);
  analogWrite(LMotor 2, 185);
}
void turn right() {
  analogWrite(RMotor 2, 0);
  analogWrite(LMotor 1, 0);
  analogWrite(RMotor 1, 215);
  analogWrite(LMotor 2, 185);
void turn left()
  analogWrite(RMotor 1, 0);
  analogWrite(LMotor 2, 0);
  analogWrite(RMotor 2, 215);
  analogWrite(LMotor 1, 185);
```

```
void move_stop() {
  analogWrite(RMotor_1, 0);
  analogWrite(RMotor_2, 0);
  analogWrite(LMotor_1, 0);
  analogWrite(LMotor_2, 0);
}
```