SOURCE CODE FOR PROJECT

```
#include <AFMotor.h>

#define trigPin 12

#define echoPin 13

AF_DCMotor motor1(1,MOTOR12_64KHZ);

AF_DCMotor motor2(2, MOTOR12_8KHZ);



void setup() {

  pinMode(trigPin, OUTPUT);

  pinMode(echoPin, INPUT);

}



void loop() {



  long duration, distance;
```

```
  digitalWrite(trigPin, LOW);

  delayMicroseconds(2);

  digitalWrite(trigPin, HIGH);



  delayMicroseconds(10);

  digitalWrite(trigPin, LOW);

  duration = pulseIn(echoPin, HIGH);

  distance = (duration/2) / 29.1;



  if (distance < 20) {

motor1.setSpeed(255);

motor2.setSpeed(0);

motor1.run(BACKWARD);

motor2.run(BACKWARD);
```

```
delay(2000); //CHANGE THIS ACCORDING TO HOW THE ROBOT TURNS.

}

  else {

motor1.setSpeed(160); //CHANGE THIS ACCORDING TO HOW FAST YOUR ROBOT SHOULD GO.

    motor2.setSpeed(160); //CHANGE THIS TO THE SAME VALUE AS YOU PUT IN ABOVE.

    motor1.run(FORWARD);

    motor2.run(FORWARD);

}

}
```