Flow Chart

START

Offender → Strategy ← **Defender**

Offender branch

Front ultrasonic <10
Back ultrasonic <10

Yes → Which Sensor are detected object

- **Fornt** → Move car forward at 255 bit for 5 second
- **Back** → Move car backward at 255 bit for 5 second

No → Move car backward at 255 bit for 5 second and Move car forward at 255 bit for 5 second

→ IR1&IR2 sensor=HIGH

No → (loops back)

Yes → Stop the car

Defender branch

Front Ultrasonic >=10

Yes → Move car forward at 180 bit

No → Front ultrasonic <10
IR1&IR2 sensor=HIGH

No → (loops back)

Yes → Move car backward at 255 bit for 5 second

→ IR color value >100&&<200

Yes → Move car backward at 255 bit