AhmedOsama\_ HarrySafe

# Harry:

How it works:

* Harry reads the three IR sensors
* While the front(middle) sensor reads a black line, then he moves forward
  + If he noticed that he moved on the same road before then he turns left on the first turn
* If right sensor reads black and left sensor reads white he rotates right
* When he reaches the end of an empty road he turns his back on go back to road
* When the two sides are black but the front is white he turns right

# Safe:

How it works:

* Attach Interrupt for the signal pins of the encoders
* When an encoder rotates clockwise its counter increases otherwise it decreases
* If the encoder complete one revolution its counter is set to zero
* Calculating each angle
* If the angle is negative then we calculate its positive value
* When every encoder is in position then the led is turned on