**FLOWCHART**

Define the Pins

Arduino reads the toggle switch status either Indoor (Short range)or Outdoor(Long Range)

Ping sensor program code

**Toggle status-Indoor**

else if (distance <150 && distance >100)

{ analogWrite(motorPin,157);

}

else if (distance <100 && distance >80)

{ analogWrite(motorPin,196);

}

else if (distance <80 && distance >50)

{ analogWrite(motorPin,230);

} Else

{ analogWrite(motorPin,255);

}

***THEN🡪 JUMP TO THE 2ND STEP***

**Toggle status-Outdoor**

if (distance <400 && distance >350)

{

analogWrite(motorPin,10);

}

else if (distance <350 && distance >300)

{

analogWrite(motorPin,30);

}

else if (distance <300 && distance >250)

{

analogWrite(motorPin,62);

}

else if (distance <250 && distance >200)

{

analogWrite(motorPin,100);

}

else if (distance <200 && distance >150)

{

analogWrite(motorPin,133);

***THEN🡪 JUMP TO THE 2ND STEP AGAIN***