int U1()

{

digitalWrite(us1\_trig, LOW);

delayMicroseconds(2);

digitalWrite(us1\_trig, HIGH);

delayMicroseconds(10);

digitalWrite(us1\_trig, LOW);

long t = pulseIn(us1\_echo, HIGH);

int dist = t \* 0.034 / 2;

if (dist < 20) //dist calculates distance of obstacle before US1

{

return (1);

}

else

{

return (0);

}

}