```
//Input: analog voltage from 0V to 5V on pin A3

//Output: two complementary PWMs with duty cycles proportional to the analog input on pins D5 and D6

int analogPin = 3;

int V, D;

void setup(){

	//put your setup code here, to run once:

	//sets Arduino pin 5 and 6 PWM to a frequency of 62500 Hz.

	TCCR0B = (TCCR0B & 0b11111000) | 0x01;

	//set pin 6 inverted

	TCCR0A = (TCCR0A & 0x0F) | 0x0B;

		}

void loop(){

	//put your main code here, to run repreatedly:

	V = analogRead(analogPin); //read voltage input

	D = V >> 2; //convert 1024 to 256

	analogWrite(5,D); //NOT truly analog, PWM.

	analogWrite(6,D);

}
```