

```
// Project 12 - Pulse Monitor Test Script
```

```
int ledPin = 13;
```

```
int sensorPin = 0;
```

```
double alpha = 0.75;
```

```
int period = 20;
```

```
double change = 0.0;
```

```
void setup()
```

```
{
```

```
  pinMode(ledPin, OUTPUT);
```

```
  Serial.begin(115200);
```

```
}
```

```
void loop()
```

```
{
```

```
  static double oldValue = 0;
```

```
  static double oldChange = 0;
```

```
  int rawValue = analogRead(sensorPin);
```

```
  double value = alpha * oldValue + (1 - alpha) * rawValue;
```

```
  Serial.print(rawValue);
```

```
  Serial.print(",");
```

```
  Serial.println(value);
```

```
  oldValue = value;
```

```
  delay(period);
```

```
}
```

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