

Exp-7

Aim: Design a system to measure the distance between objects

Hardware Required:

Arduino Board

Ultrasonic distance measure.

Code:

~~rate~~ Ⓢ

```
void loop()
```

```
{
```

```
  long duration, inch, cm;
```

```
  pinMode ( pingPin, OUTPUT);
```

```
  digitalWrite ( pingPin, LOW);
```

```
  delayMicroseconds (2);
```

```
  digitalWrite ( pingPin, HIGH);
```

```
  delayMicroseconds (10);
```

```
  digitalWrite ( pingPin, LOW);
```

```
  pinMode ( 7, INPUT);
```

```
  duration = pulseIn ( 7, HIGH);
```

```
  inch = duration / 147;
```

```
  cm = inch * 2.54;
```

```
  Serial.print (" Distance (in cm):");
```

```
  Serial.println (cm);
```

```
  Serial.print (" Distance (in cm inches):");
```

```
  Serial.println (inch);
```

```
  delay (500);
```

```
}
```


