SPRINT-I

Date	29/10/2022
Team ID	PNT2022TMID49859
Project Name	Smart waste management system

CODING:

```
#define trigPin 12
#define echoPin 13 void
setup()
{
Serial.begin (9600); pinMode(trigPin,
OUTPUT); pinMode(echoPin,
INPUT);
} void
loop()
{ long duration, distance; int max = 80; // Let consider as Height of
the Garbage Bin is = 80 cm.
float diff, perc; digitalWrite(trigPin, LOW); delayMicroseconds(2);
digitalWrite(trigPin, HIGH); delayMicroseconds(10); digitalWrite(trigPin, LOW);
duration = pulseIn(echoPin, HIGH); distance = (duration/2) / 29.1; diff = max -
distance; // 'diff' variable tells u that, how much the Garbage Bin is Left to fill.
perc = (diff/max)*100; // 'perc' variable tells u that, how much percentage the
Garbage Bin is filled.

if (perc>=90)
{
Serial.println("Garbage Bin is FULL."); // When the Garbage Bin is
filled more than 90%, then this Error Message will Displayed.
} else
```

```
{
Serial.print("Garbage Bin is Filled ");
Serial.print(perc);
Serial.println(" %."); // These 3 Lines are print, that howmuch the Garbage Bin is Filled...Ex.
"Garbage Bin is Filled 70%.".
} /* if (distance >= 400 || distance
<= 2)
{
Serial.println("Out of range");
} else
{
Serial.print(distance);
Serial.println(" cm");
} */
delay(500)
;
}
```