SPRINT-I

Date	29/10/2022
Team ID	PNT2022TMID49848
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);
}
```