SPRINT-II

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

CODING:

```
  SoftwareSerial mySerial(9, 10);
#define trigPin 12
#define echoPin 13  void
setup()
{
mySerial.begin(9600); // Setting the baud rate of GSM Module
Serial.begin (9600);  pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);  delay(100);
 }
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.

 // Call the Function of Send SMS.

 SendMessage();

 // Send Message Function Call.

}  /*

else

 {

 Serial.print("Garbage Bin is Filled ");

Serial.print(perc);

 Serial.print(" %.");                  // These 3 Lines are print, that how much 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);
}
void SendMessage()
{
mySerial.println("AT+CMGF=1");              //Sets the GSM Module in Text Mode
delay(1000);                              // Delay of 1000 milli seconds or 1 second
mySerial.println("AT+CMGS=\"+918792574742\"\r");       // Replace x with mobile number
delay(1000);  mySerial.println("Garbage Bin is Full.");          // The SMS text you want to
send  delay(100);  mySerial.println((char)26);                  // ASCII code of CTRL+Z
delay(1000);
 }
```