## Assignment -1

Assignment Date	20 October 2022
Team ID	PNT2022TMID38150
Project Name	Project-Smart Farmer-IoT Enabled Smart Farming Application

```
void setup()
{
Serial.begin(9600);
 pinMode(12,OUTPUT);
 pinMode(2,INPUT);
}
void loop()
{
int motion=digitalRead(2);
double data=analogRead(A0);
double n=data/1024;
double volt=n*5; //because connected to 5v
double off=volt-0.5;
double temperature=off*100;
```

```
Serial.print("Temperature Data: ");
 Serial.println(temperature);
 if(motion==1 && temperature<60){
  Serial.println("Motion is Detected");
  tone(12,1000);
 }
 else if(motion==0 && temperature>60){
  Serial.println("Temperature is more than 60°C");
  tone(12,2000);
 }
  else if(motion==1 && temperature>60)
{
  Serial.println("Motion is Detected");
  Serial.println("Temperature is more than 60°C");
  tone(12,5000);
 }
 else if(motion==0 && temperature<60)
  noTone(12);
}
```