SPRINT 1

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Project Name	Project – Smart Farmer-IoT Enabled smart
	Farming Application
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Connecting Sensors with Arduino using C++ code

```
#include "Arduino.h"#include
"dht.h"
#include "SoilMoisture.h"

#define dht_apin A0 const int sensor_pin = A1; //soil
moistureint pin_out = 9; dht DHT; int c=0; void setup() {
pinMode(2, INPUT); //Pin 2 as INPUT pinMode(3, OUTPUT);
//PIN 3 as OUTPUTpinMode(9, OUTPUT);//output for pump
} void
loop()
{
if (digitalRead(2) == HIGH)

{
digitalWrite(3, HIGH); // turn the LED/Buzz ON
delay(10000); // wait for 100 msecond digitalWrite(3, LOW); // turn the LED/Buzz OFFdelay(100);
```

```
}
 Serial.begin(9600);
  delay(1000);
 DHT.read11(dht_apin); //tempraturefloat
h=DHT.humidity;
                                   float
t=DHT.temperature;delay(5000);
Serial.begin(9600);
                                   float
moisture_percentage;int
sensor_analog;
sensor_analog = analogRead(sensor_pin); moisture_percentage =
( 100 - ( (sensor_analog/1023.00) *100 ) ; float
m=moisture_percentage;delay(1000);
                                        if(m<40)//pump
                                                            {
while(m<40)
digitalWrite(pin_out,HIGH);
                                //open pump
sensor_analog = analogRead(sensor_pin); moisture_percentage =
(100 - ( (sensor_analog/1023.00) *100 ));
m=moisture_percentage; delay(1000);
}
digitalWrite(pin_out,LOW);
                                //closepump
if(c)=0) {
mySerial.begin(9600);delay(15000)
; Serial.begin(9600); delay(1000);
Serial.print("\r"); delay(1000);
```

