

ASSIGNMENT 1

Date	12 September 2022
Nmae	Shobana P
Roll Number	718019L250
Project Name	Project – Smart Farmer-IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Topic: Assignment on home automation using Arduino

Code:

```
#include <Servo.h>
```

```
Servo s;
```

```
void setup()
```

```
{
```

```
  pinMode(4, OUTPUT);
```

```
  pinMode(2, INPUT);
```

```
  s.attach(3);
```

```
}
```

```
void loop()
```

```
{
```

```
  s.write(0);
```

```
  int pir = digitalRead(2);
```

```
  double a = analogRead(A0);
```

```
  double t = (((a / 1024) * 5) - 0.5) * 100;
```

```
  if(pir)
```

```
  {
```

```
    s.write(180);
```

```
    Delay(5000);
```

```
  }
```

```
  If(t>35)
```

```
    digitalWrite(4,0);
```

```
else  
digitalWrite(4,1)  
}
```

OUTPUT:

