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Program no Week-7(2nd-Question)

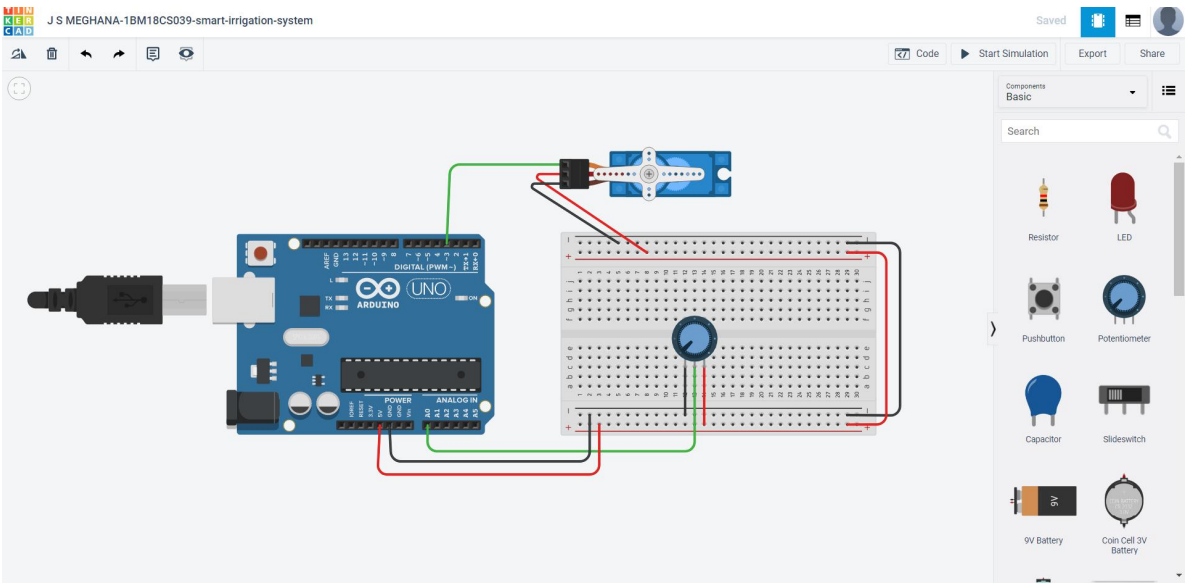
Program Title Smart Irrigation System

Aim: Design a smart irrigation system (Potentiometer and Servo Motor Shaft).

Hardware Required

1. Arduino Board
2. Bread Board
3. Micro Servo
4. Potentiometer

Circuit Diagram

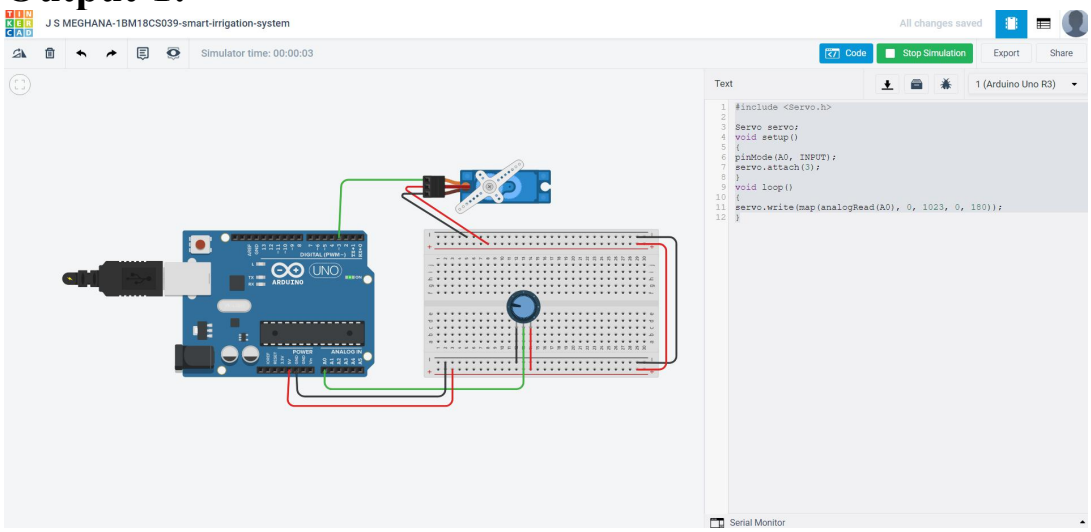


Code:

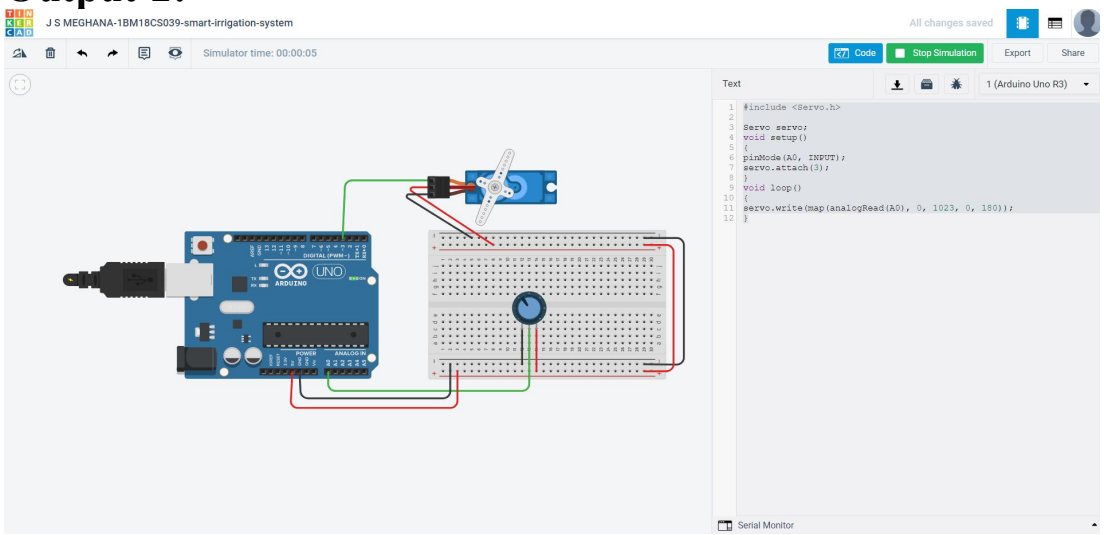
```
#include <Servo.h>
Servo servo;
void setup()
{
pinMode(A0, INPUT);
servo.attach(3);
}
void loop()
{
servo.write(map(analogRead(A0), 0, 1023, 0, 180));
}
```

Observation /Output:

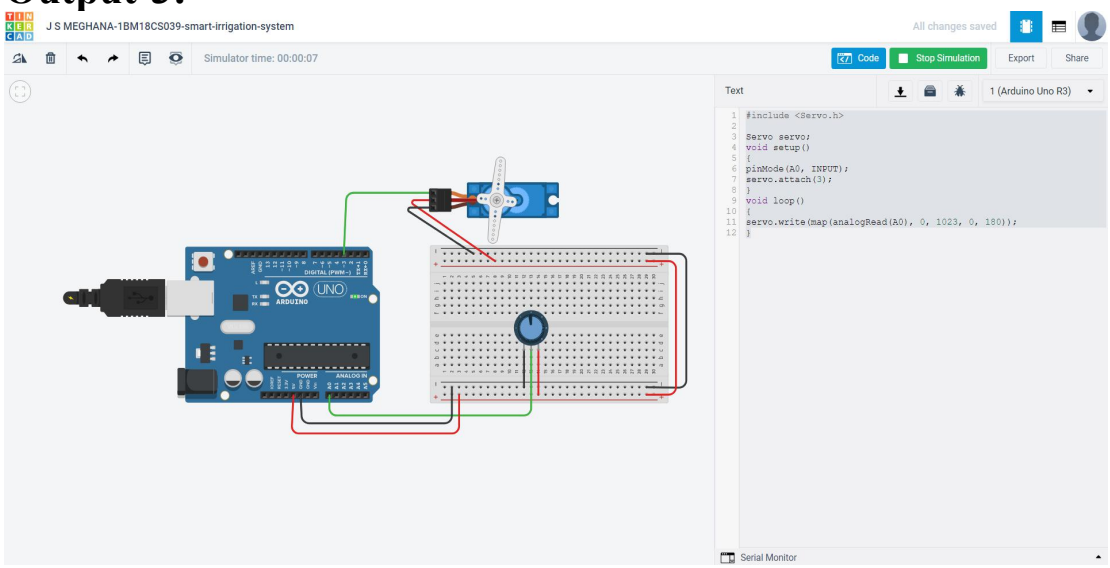
Output-1:



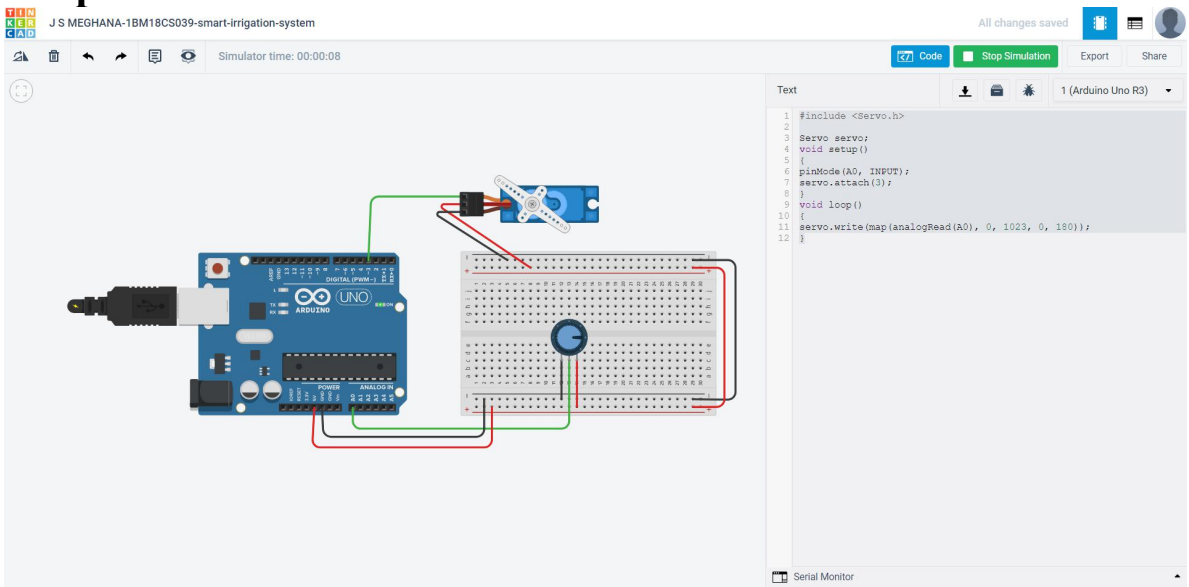
Output-2:



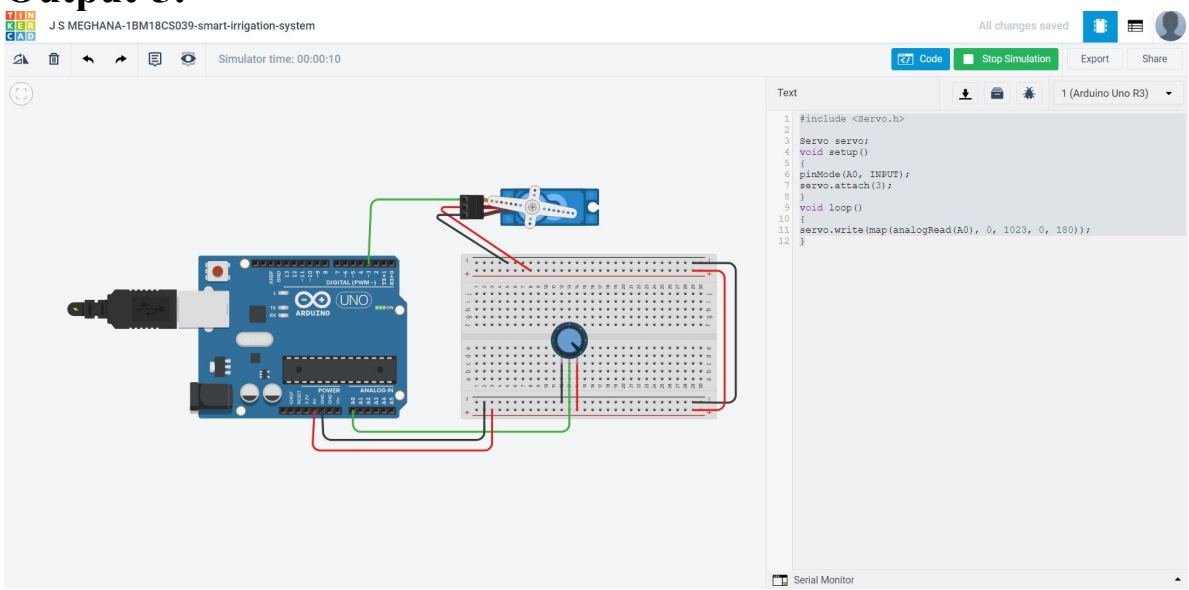
Output-3:



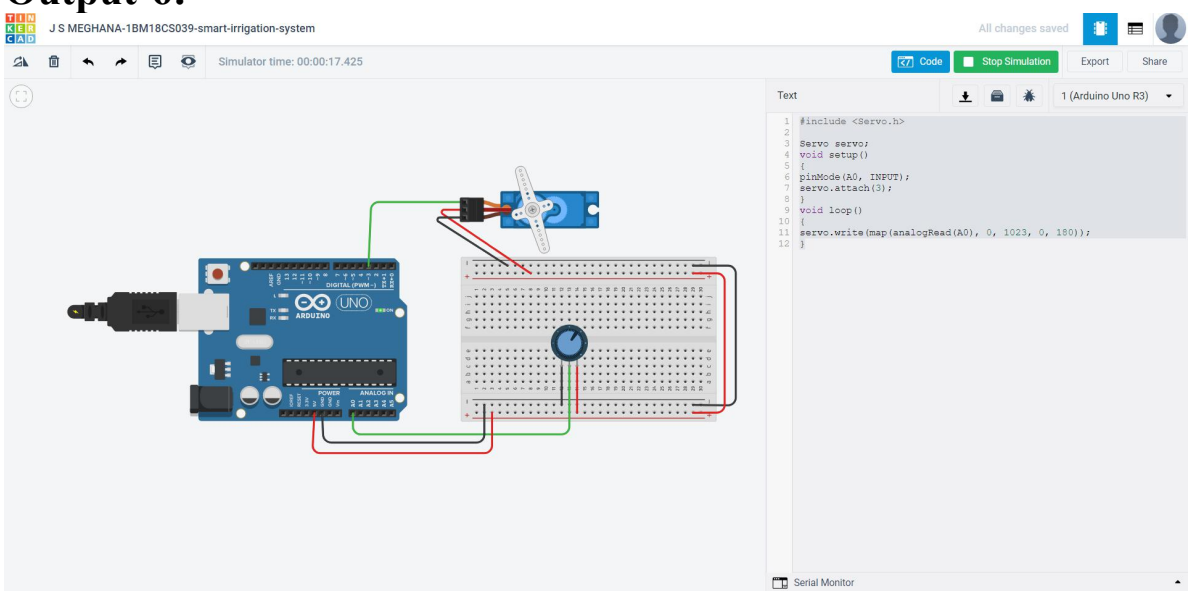
Output-4:



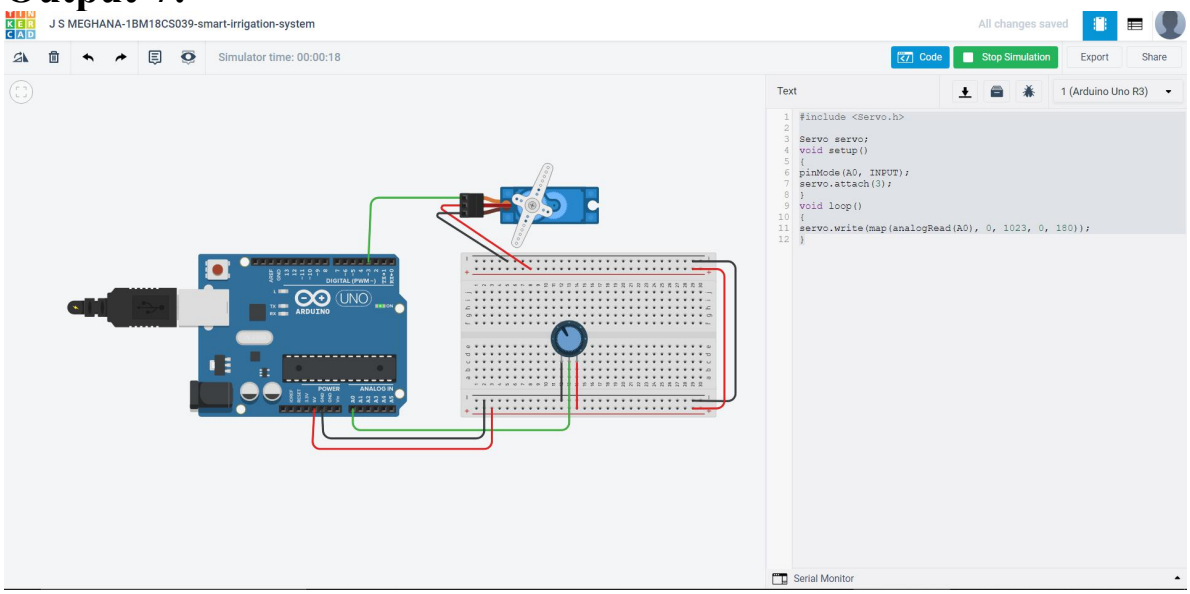
Output-5:



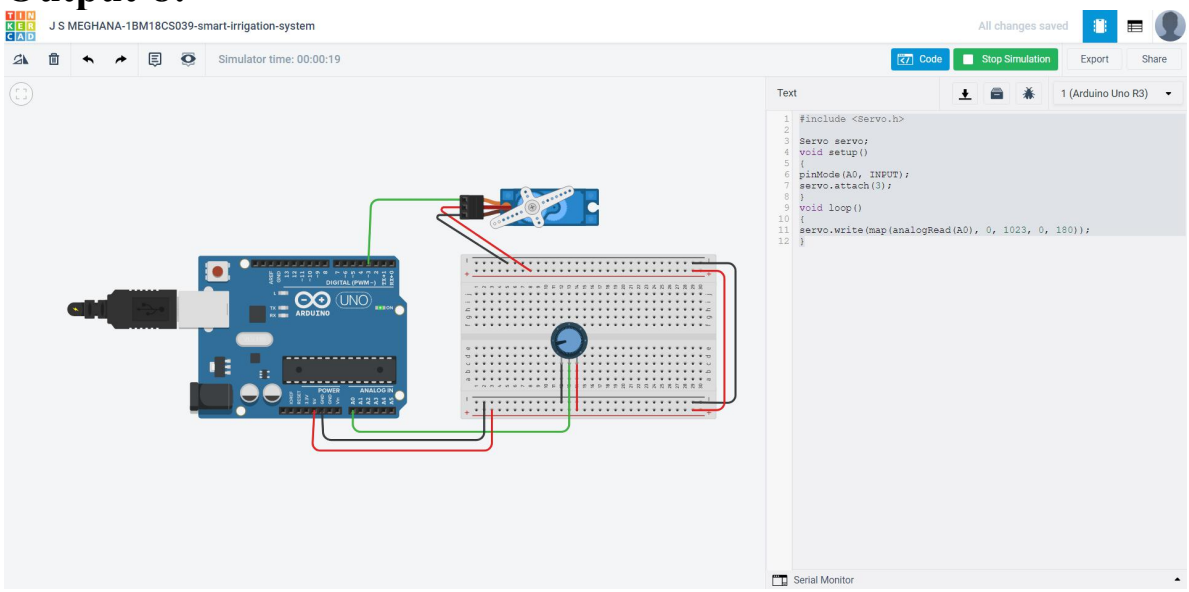
Output-6:



Output-7:



Output-8:



Output-9: