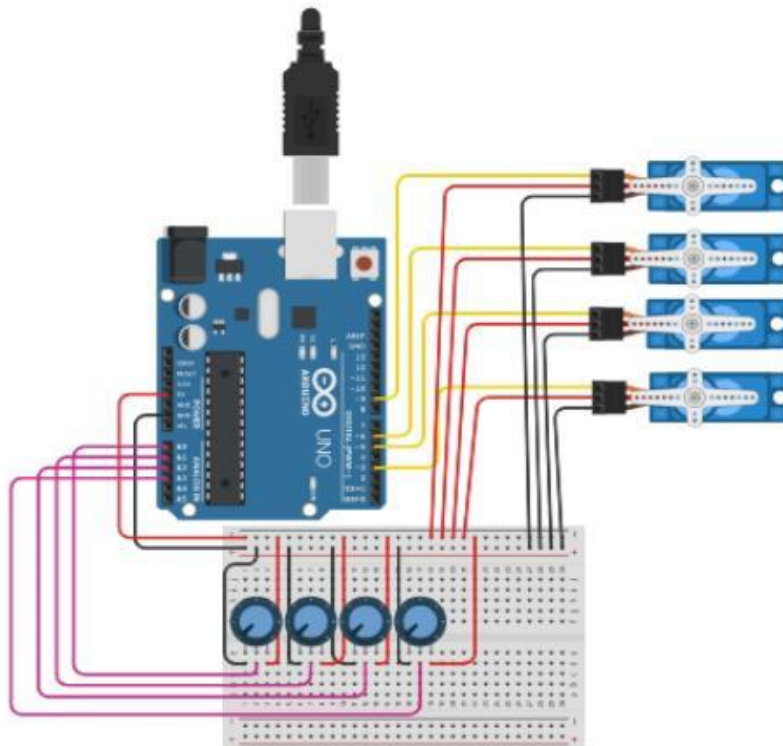Team Id:PNT2022TMID26698

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My project is an robotic arm which performs the task like pick and place . servo motor used in this circuit and potentiometer is used to control the servos

Circuit Layout:

Code:

#include <Servo.h>

Servo myservo1; // create servo object to control a servo

Servo myservo2;

```
Servo myservo3;

Servo myservo4;

Int potpin1 = 0;  // analog pin used to connect the potentiometer

Int potpin2 = 1;

Int potpin3 = 2;

Int potpin4 = 3;

Int val1;   // variable to read the value from the analog pin

Int val2;

Int val3;

Int val4;

Void setup() {

  Myservo1.attach(9);

  Myservo2.attach(6);

  Myservo3.attach(5);

  Myservo4.attach(3);// attaches the servo on pin 9 to the servo object

}


Void loop() {

  Val1 = analogRead(potpin1);          // reads the value of the potentiometer (value between 0 and 1023)

  Val1 = map(val1, 0, 1023, 0, 180);    // scale it to use it with the servo (value between 0 and 180)

  Myservo1.write(val1);               // sets the servo position according to the scaled value

  Val2 = analogRead(potpin2);          // reads the value of the potentiometer (value between 0 and 1023)

  Val2 = map(val2, 0, 1023, 0, 180);    // scale it to use it with the servo (value between 0 and 180)

  Myservo2.write(val2);

  Val3 = analogRead(potpin3);          // reads the value of the potentiometer (value between 0 and 1023)

  Val3 = map(val3, 0, 1023, 0, 180);    // scale it to use it with the servo (value between 0 and 180)

  Myservo3.write(val3);

  Val4 = analogRead(potpin4);          // reads the value of the potentiometer (value between 0 and 1023)

  Val4 = map(val4, 0, 1023, 0, 180);    // scale it to use it with the servo (value between 0 and 180)

  Myservo4.write(val4);
```

Delay(15);   // waits for the servo to get there

}

Output: