IBM ASSIGNMENT-1

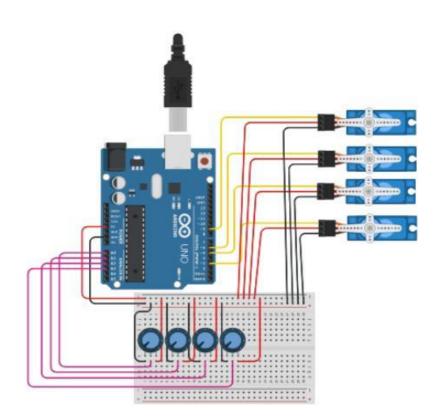
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My project is an robotic arm which performs the task like pick and place . servo motor used in this circuit and potentiometer is used to control the servos

Circuit Layout:



Code:

#include <Servo.h>

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

Servo myservo2;

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Servo myservo3;
Servo myservo4;
Int potpin 1 = 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);
```

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

