

```

#define M1A 3
#define M1B 5
#define M2A 6
#define M2B 9

int speedStraight = 255;
int speedTurn = 150;

int motorPin[4]={3,5,6,9};

void motor(int motorSelect, int motorDirection, int motorSpeed)
{
    if(motorSelect == 0)
    {
        if(motorDirection == 0)
        {
            digitalWrite(motorPin[0],0);
            digitalWrite(motorPin[1],0);
            delay(20);
            analogWrite(motorPin[0],motorSpeed);
        }
        else if(motorDirection == 1)
        {
            digitalWrite(motorPin[0],0);
            digitalWrite(motorPin[1],0);
            delay(20);
            analogWrite(motorPin[1],motorSpeed);
        }
    }
    else if(motorSelect == 1)
    {
        if(motorDirection == 0)
        {
            digitalWrite(motorPin[2],0);
            digitalWrite(motorPin[3],0);
            delay(50);
            analogWrite(motorPin[2],motorSpeed);
        }
        else if(motorDirection == 1)
        {
            digitalWrite(motorPin[2],0);
            digitalWrite(motorPin[3],0);
            delay(50);
            analogWrite(motorPin[3],motorSpeed);
        }
    }
}

void manualControlBluetooth(char command)
{
    if(command == 'F')
    {
        //Forward
        motor(0,1,speedStraight);
        motor(1,1,speedStraight);
    }
}

```

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else if(command == 'B')
{
    //Back
    motor(0,0,speedStraight);
    motor(1,0,speedStraight);
}
else if(command == 'L')
{
    //Left
    motor(0,0,speedTurn);
    motor(1,1,speedTurn);
}
else if(command == 'R')
{
    //Right
    motor(0,1,speedTurn);
    motor(1,0,speedTurn);
}
else if(command == 'I')
{
    //Forward Right
    motor(0,1,speedStraight);
    motor(1,1,speedTurn);
}
else if(command == 'G')
{
    //Forward Left
    motor(0,1,speedTurn);
    motor(1,1,speedStraight);
}
else if(command == 'J')
{
    //Back Right
    motor(0,0,speedStraight);
    motor(1,0,speedTurn);
}
else if(command == 'H')
{
    //Back Left
    motor(0,0,speedTurn);
    motor(1,0,speedStraight);
}
else if(command == 'S')
{
    //Stop
    motor(0,0,0);
    motor(1,0,0);
}
else
{
    //Stop
    motor(0,0,0);
    motor(1,0,0);
}
}

void setup()

```

```
{  
  for(int i = 0; i < 4; i++)  
  {  
    pinMode(motorPin[i], OUTPUT);  
  }  
  
  Serial.begin(115200);  
  
  motor(0,0,0);  
  motor(1,0,0);  
  delay(100);  
}  
  
void loop()  
{  
  if(Serial.available() > 0)  
  {  
    char reading = Serial.read();  
    manualControlBluetooth(reading);  
    delay(20);  
  }  
}
```