

## **//Bluetooth Controlled Car Program:**

// Starting of Program

int m1a = 9;

int m1b = 10;

int m2a = 11;

int m2b = 12;

char val;

void setup()

{

pinMode(m1a, OUTPUT); // Digital pin 10 set as output Pin

pinMode(m1b, OUTPUT); // Digital pin 11 set as output Pin

pinMode(m2a, OUTPUT); // Digital pin 12 set as output Pin

pinMode(m2b, OUTPUT); // Digital pin 13 set as output Pin

Serial.begin(9600);

}

void loop()

{

while (Serial.available() > 0)

{

val = Serial.read();

Serial.println(val);

}

if( val == 'F') // Forward

{

```
digitalWrite(m1a, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2a, HIGH);

digitalWrite(m2b, LOW);

}

else if(val == 'B') // Backward

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, HIGH);

digitalWrite(m2a, LOW);

digitalWrite(m2b, HIGH);

}

else if(val == 'L') //Left

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, HIGH);

digitalWrite(m2b, LOW);

}

else if(val == 'R') //Right

{

digitalWrite(m1a, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}
```

```
else if(val == 'S') //Stop

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'I') //Forward Right

{

digitalWrite(m1a, HIGH);

digitalWrite(m1b, LOW);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'J') //Backward Right

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, HIGH);

digitalWrite(m2a, LOW);

digitalWrite(m2b, LOW);

}

else if(val == 'G') //Forward Left

{

digitalWrite(m1a, LOW);

digitalWrite(m1b, LOW);

digitalWrite(m2a, HIGH);    digitalWrite(m2b, LOW);
```

```
}  
  
else if(val == 'H') //Backward Left  
  
{  
  
    digitalWrite(m1a, LOW);  
  
    digitalWrite(m1b, LOW);  
  
    digitalWrite(m2a, LOW);  
  
    digitalWrite(m2b, HIGH);  
  
}  
  
}
```