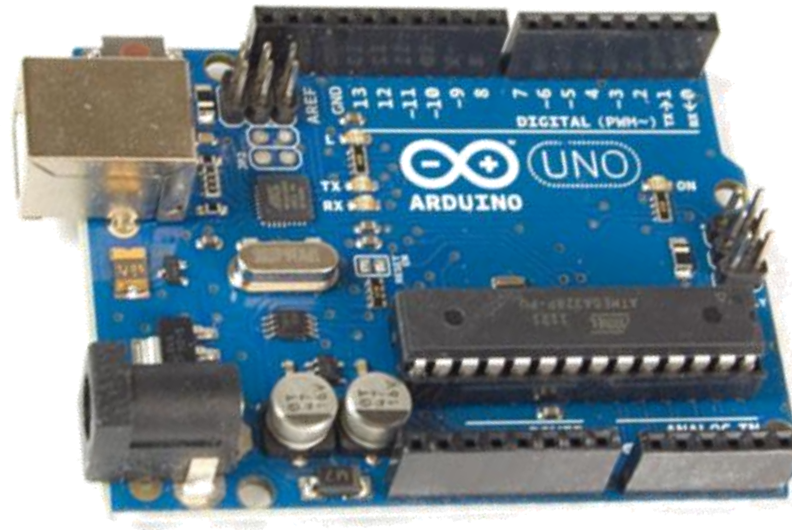




**CLUB DE DESARROLLO
DE VIDEOJUEGOS
E INTELIGENCIA ARTIFICIAL**

INTRODUCTION TO ARDUINO

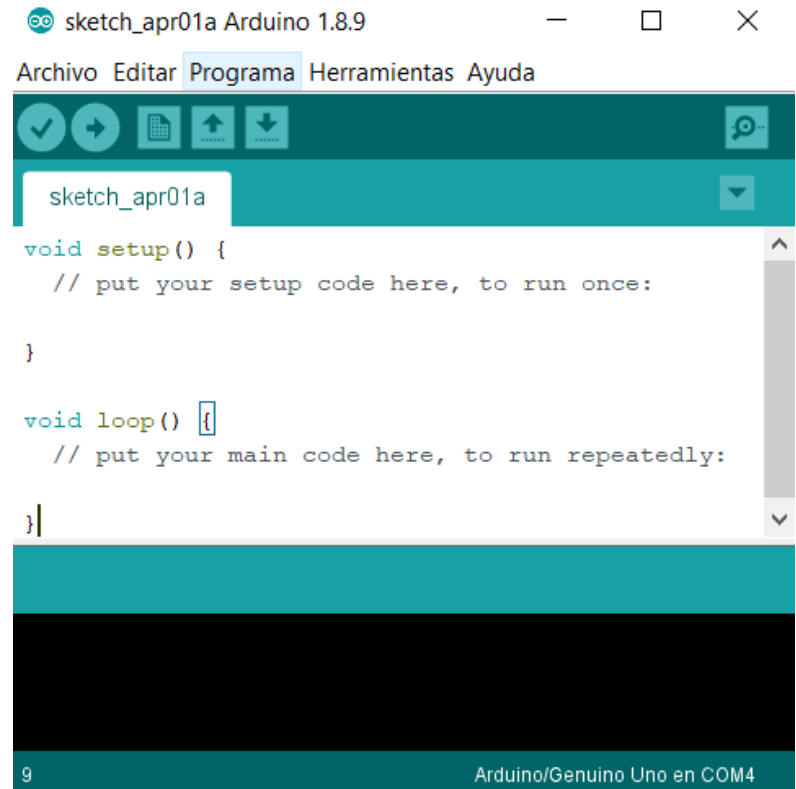
Arduino is an open-source platform used for building electronics projects. Consists of both a physical programmable circuit board and an IDE that uses a simplified version of C++, making it easier to learn to program.



IDE ARDUINO

Consist of two parts:

- Setup: Contain all the initial configuration of the board.
Ex: pinMode(number, mode).
- Loop: As the name indicates, it contains the code that will loop forever.




MATERIALS FOR BLUETOOTH ARDUINO CAR



SETUP

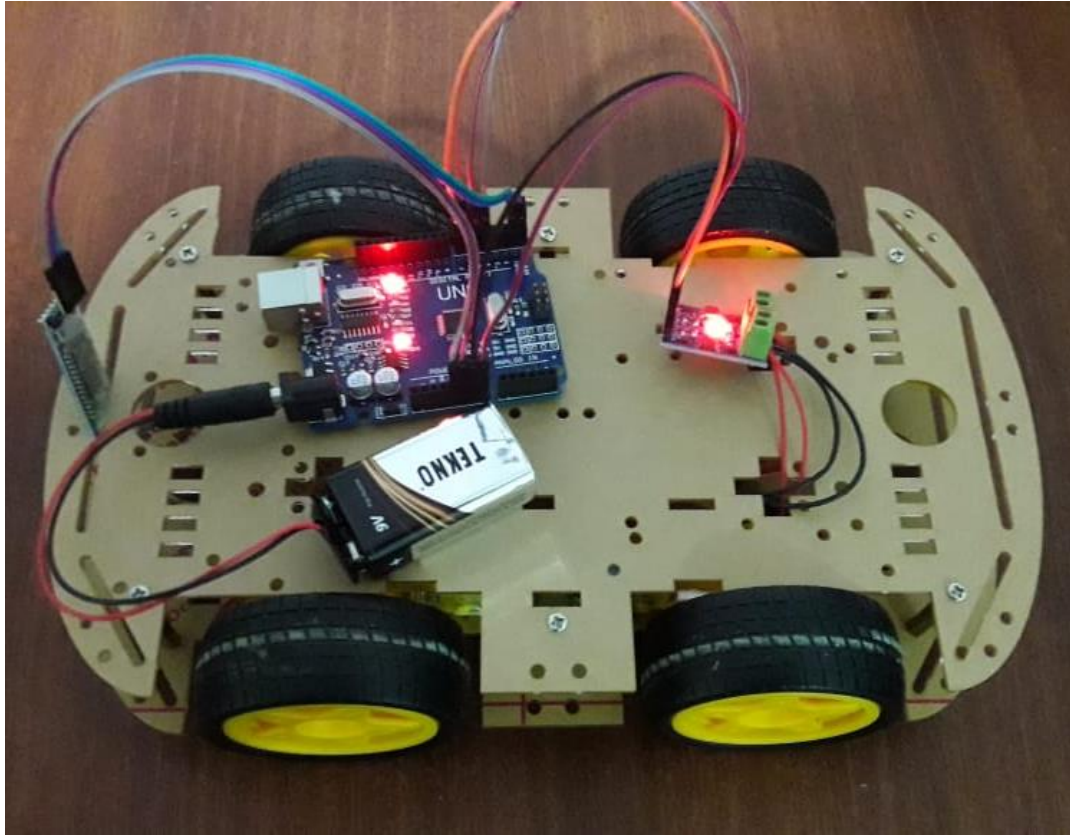
```
char command;  
const int leftForward = 4, leftReverse = 5, rightForward = 6, rightReverse = 7;  
void setup(){  
    pinMode(leftForward,OUTPUT);  
    pinMode(leftReverse,OUTPUT);  
    pinMode(rightForward,OUTPUT);  
    pinMode(rightReverse,OUTPUT);  
    Serial.begin(9600);  
}
```



LOOP

```
void loop(){  
    if(Serial.available()>0){command = Serial.read();Serial.println(command);}  
    if(command=='a')  
    {digitalWrite(leftForward,HIGH);digitalWrite(leftReverse,LOW);digitalWrite(rightForward,HIGH);  
    digitalWrite(rightReverse,LOW);}  
    else if(command=='e')  
    {digitalWrite(leftForward,LOW);digitalWrite(leftReverse,HIGH);digitalWrite(rightForward,LOW);d  
    igitalWrite(rightReverse,HIGH);}  
    else if(command == 'd')  
    {digitalWrite(leftForward,LOW);digitalWrite(leftReverse,LOW);digitalWrite(rightForward,HIGH);d  
    igitalWrite(rightReverse,LOW);}  
    else if(command == 'b')  
    {digitalWrite(leftForward,HIGH);digitalWrite(leftReverse,LOW);digitalWrite(rightForward,LOW);d  
    igitalWrite(rightReverse,LOW);}  
    else if(command == 'c')  
    {digitalWrite(leftForward,LOW);digitalWrite(leftReverse,LOW);digitalWrite(rightForward,LOW);di  
    gitalWrite(rightReverse,LOW);}  
    delay(70);  
}
```

FINAL MONTAGE



GENERAL INFORMATION

Meetings:

Monday 20:00 – 21:00

Place:

B-101

Facebook Group: CLUB DE DESARROLLO DE VIDEOJUEGOS E INTELIGENCIA ARTIFICIAL YACHAY TECH



CLUB DE DESARROLLO DE
VIDEOJUEGOS E INTELIGENCIA...

Miembro desde 4 horas



Hector Mejía está en este grupo

GitHub: <https://github.com/yachay-tech-ai>