bool data = 0; //Variable for storing received data

void setup()

{

Serial.begin(9600); //Sets the data rate in bits per second (baud) for serial data transmission

pinMode(13, OUTPUT); //Sets digital pin 13 as output pin

}

void loop()

{

if(Serial.available() > 0) // Send data only when you receive data:

{

data = Serial.read(); //Read the incoming data and store it into variable data

Serial.print(data); //Print Value insid e data in Serial monitor

Serial.print("\n"); //New line

if(data == a) //Checks whether value of data is equal to 1

digitalWrite(13, HIGH); //If value is 1 then LED turns ON

else if(data == A) //Checks whether value of data is equal to 0

digitalWrite(13, LOW); //If value is 0 then LED turns OFF

}

data = Serial.read();

Serial.println(data);

delay(500);

}