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Adalberto, French bishop 1234 – Floris IV, Dutch nobleman (born 1210) 1249 – Jacopo Tiepolo, doge of Venice 1333 – John Campbell, Scottish nobleman 1333 – Alexander Bruce, Scottish nobleman 1333 – Sir Archibald Douglas, Scottish nobleman 1333 – Mao Cholutin II, Scottish nobleman 1333 – Kenneth de Moravia, 4th Earl of Sutherland 1374 – Petrarch, Italian poet and scholar (born 1304) 1415 – Philippa of Lancaster, Portuguese queen (born 1360) 1543 – Mary Boleyn, English daughter of Elizabeth Boleyn, Countess of Wiltshire (born 1499) 1631 – Cesare Cremonini, Italian philosopher and academic (born 1550) 1742 – William Somerville, English poet and author (born 1675) 1810 – Louise of Mecklenburg-Strelitz, Prussian queen (born 1776) 1814 – Matthew Flinders, English navigator and cartographer (born 1774) 1824 – Agustín de Iturbide, Mexican general and emperor (born 1783) 1838 – Pierre Louis Dulong, French physicist and chemist (born 1785) 1850 – Margaret Fuller, American journalist and critic (born 1810) 1855 – Konstantin Batyushkov, Russian poet and translator (born 1787) 1857 – Stefano Franscini, Swiss statistician and politician (born 1796) 1878 – Yegor Ivanovich Zolotarev, Russian mathematician and academic (born 1847) 1882 – John William Bean, English criminal and failed regicide (born 1824)[45] 1896 – Abraham H. Cannon, American publisher and religious leader (born 1859) 1913 – Climaco Calderón, Colombian lawyer and politician, 15th President of Colombia (born 1852) 1925 – John Indermaur, British lawyer (born 1851) 1930 – Robert Stout, Scottish-New Zealand politician, 13th Prime Minister of New Zealand (born 1844) 1933 – Kaarle Krohn, Finnish historian and academic (born 1863) 1939 – Rose Hartwick Thorpe, American poet and author (born 1850) 1941 – Spiro Bocarić, Serbian painter, victim of Genocide of Serbs[46] 1943 – Yekaterina Budanova, Russian captain and pilot (born 1916) 1943 – Carlo Zangarini, Italian poet and opera librettist (born 1873)[47] 1947 – U Razak, Burmese educator and politician (born 1898) 1947 – Aung San, Burmese general and politician (born 1915) 1947 – Lyuh Woon-hyung, South Korean politician (born 1886) 1963 – William Andrew, English priest (born 1884) 1965 – Syngman Rhee, South Korean journalist and politician, 1st President of South Korea (born 1875) 1967 – John T. McNaughton, United States Assistant Secretary of Defense for International Security Affairs and an advisor to Robert McNamara (born 1921[7] 1967 – Odell Shepard, American poet and politician, 66th Lieutenant Governor of Connecticut (born 1884) 1969 – Stratis Myrivilis, Greek soldier and author (born 1890) 1974 – Ernő Schwarz, Hungarian-American soccer player and coach (born 1904) 1975 – Lofy Fitzzell, American singer-songwriter and guitarist (born 1928) 1975 – John Alan Coey, American mercenary and medic in the Rhodesian Bush War[48] 1977 – Karl Ristikivi, Estonian geographer, author, and poet (born 1912) 1980 – Margaret Craven, American journalist and author (born 1901) 1980 – Nihat Erim, Turkish jurist and politician, 13th Prime Minister of Turkey (born 1912) 1980 – Hans Morgenthau, German-American political scientist, philosopher, and academic (born 1904) 1981 – Roger Doucet, Canadian tenor (born 1919) 1982 – Hugh Everett III, American physicist and mathematician (born 1930) 1984 – Faina Ranevskaya, Russian actress (born 1896) 1984 – Aziz Sami, Iraqi writer and translator (born 1895)[49] 1985 – Janusz Zajdel, Polish author (born 1938) 1989 – Kazimierz Sabbat, Polish businessman and politician, President of the Republic of Poland (born 1913) 1990 – Eddie Quillan, American actor (born 1907) 1992 – Paolo Borsellino, Italian lawyer and judge (born 1940) 1994 – Victor Barbeau, Canadian author and academic (born 1896) 1998 – Elmer Valo, Polish-American baseball player, coach, and manager (born 1921) 2002 – Dave Carter, American singer-songwriter and guitarist (born 1952) 2002 – Alan Lomax, American historian, scholar, and activist (born 1915) 2003 – Bill Bright, American evangelist and author, founded the Campus Crusade for Christ (born 1921) 2003 – Pierre Graber, Swiss politician, President of the Swiss National Council (born 1908) 2004 – Sylvia Daoust, Canadian sculptor (born 1902) 2004 – J. Gordon Edwards, American entomologist, mountaineer, and DDT advocate (born 1919) 2004 – Francis A. Marzen, American priest and journalist (born 1924) 2004 – Zenkō Suzuki, Japanese politician, 70th Prime Minister of Japan (born 1911) 2005 – Edward Bunker, American author and screenwriter (born 1933) 2006 – Jack Warden, American actor (born 1920) 2007 – A. K. Faizul Huq, Bangladeshi journalist, lawyer, and politician (born 1945) 2007 – Roberto Fontanarrosa, Argentinian cartoonist (born 1944) 2008 – Dercy Gonçalves, Brazilian comedian and actress (born 1907) 2009 – Frank McCourt, American author and educator (born 1930) 2009 – Henry Surtees, English race car driver (born 1991) 2010 – Cécile Aubry, French actress, author, television screenwriter and director (born 1928) 2010 – Jon Cleary, Australian author and playwright (born 1917) 2012 – Humayun Ahmed, Bangladeshi director and playwright (born 1948) 2012 – Tom Davis, American comedian, actor, and screenwriter (born 1952) 2012 – Mohammad Hassan Ganji, Iranian meteorologist and academic (born 1912) 2012 – Omar Suleiman, Egyptian general and politician, 16th Vice President of Egypt (born 1935) 2012 – Sylvia Woods, American businesswoman, co-founded Sylvia's Restaurant of Harlem (born 1926) 2012 – Valiulla Yakupov, Islamic cleric (born 1963) 2013 – Mikhail Gorsheniov, Russian singer-songwriter (born 1973) 2013 – Geeto Mongol, Canadian-American wrestler and trainer (born 1931) 2013 – Mel Smith, English actor, director, and screenwriter (born 1952) 2013 – Bert Trautmann, German footballer and manager (born 1923) 2013 – Phil Woosnam, Welsh-American soccer player and manager (born 1932) 2013 – Peter Ziegler, Swiss geologist and academic (born 1928) 2013 – Leyla Erbil, Turkish author (born 1931) 2014 – Rubem Alves, Brazilian theologian (born 1933) 2014 – Skye McCole Bartusiak, American child actress and child model (born 1992)[50] 2014 – David Easton, Canadian-American political scientist and academic (born 1917) 2014 – Paul M. Fleiss, American pediatrician and author (born 1933) 2014 – James Garner, American actor (born 1928) 2014 – Jerzy Jurka, Polish biologist (born 1950) 2014 – Ray King, English footballer and manager (born 1924) 2014 – Ingemar Odlander, Swedish journalist (born 1936) 2014 – Harry Pougher, English cricketer (born 1941) 2014 – Leen Vliegheert, Dutch politician (born 1931) 2014 – John Winkin, American baseball player, coach, and journalist (born 1919) 2015 – Van Alexander, American composer and conductor (born 1915) 2015 – Gellina Prozumenschchikova, Ukrainian-Russian swimmer and journalist (born 1948) 2015 – Carmino Ravosa, American singer-songwriter, pianist, and producer (born 1930) 2015 – Gennadiy Seleznyov, Russian journalist and politician, 2nd Speaker of the Duma (born 1947) 2016 – Garry Marshall, American actor, director, and producer (born 1934) 2018 – Jon Schnepf, American producer, director, voice actor, editor, writer, cartoonist, animator, and cinematographer (born 1967)[51][52] 2018 – Denis Ten, Kazakhstani figure skater (born 1993)[53] 2019 – Rutger Hauer, Dutch actor, director, and producer (born 1944)[54] 2024 – Toumani Diabaté, Malian musician (born 1965)[55] 2024 – Iryna Fariou, Ukrainian linguist and politician (born 1964)[56] 2024 – Kevan Gosper, Australian athlete and administrator (born 1933)[57] 2024 – Sheila Jackson Lee, American lawyer and politician (born 1950)[58] 2024 – Nguyễn Phú Trọng, Vietnamese politician, General Secretary of the Communist Party of Vietnam (born 1944)[59] 2024 – Ray Reardon, Welsh snooker player and police officer (born 1932)[60] 2024 – James C. Scott, American political scientist and anthropologist (born 1936)[61] 2024 – Esta TerBlanche, South African actress (born 1973)[62] Palace Day[63][64] Christian feast day: Bernold, Bishop of Utrecht Justa and Rufina Kirdjun (or Abakerazum) Macrina the Younger, Sister of St. Basil the Great Symmachus July 19 (Eastern Orthodox liturgics) Martyrs' Day (Myanmar) Sandinista Day or Liberation Day (Nicaragua) ^ "Great Fire of Rome". This Day in Geographic History. National Geographic Society. 2014-06-18. Retrieved 2018-07-16. ^ Augendre, Jacques (2016). Guide historique [Historical guide] (PDF) (in French). Paris: Amaury Sport Organisation. p. 5. Archived (PDF) from the original on 17 August 2016. Retrieved 27 October 2016. ^ Geoghegan, John J. 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SCOTT'S PASSING". BERNAMA. Retrieved 2024-07-23. ^ Zee, Michaela (2024-07-21). "Esta TerBlanche, 'All My Children' Actor, Dies at 51". Variety. Retrieved 2024-07-23. ^ "#PalaceDay 19th July 2022". palaceday.com. Archived from the original on 2022-07-19. Retrieved 2022-07-19. ^ "PALACE DAY The only day fully dedicated to Palace-Museums on Social Media!". europeanroyalresidences.eu. Retrieved 2022-07-19. Wikimedia Commons has media related to July 19. "On This Day". BBC. The New York Times: On This Day "Historical Events on July 19". OnThisDay.com. Retrieved from " Home / Hardware / UNO R3 Arduino UNO is a microcontroller board based on the ATmega328P. It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator, a USB connection, a power jack, an ICSP header and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started. You can tinker with your UNO without worrying too much about doing something wrong, worst case scenario you can replace the chip for a few dollars and start over again.The ATmega328P can easily be replaced, as it is not soldered to the board.The ATmega328P also features 1kb of EEPROM, a memory which is not erased when powered off.The Arduino UNO features a barrel power connector, that works great with a standard 9V battery. Share — copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Passive Infrared Sensor (PIR sensors) find their applications in many fields. The PIR sensor is used to detect motion. Some of the applications of motion detection are automatic lights control (saves Power, gives more lifetime to the LEDs), Burglar detector/intruder detector - which is a basic safety mechanism to detect movement in unattended houses. It is also used in fencing. For examples, pets are not allowed to travel very far from the garden or house.In this tutorial we will use a PIR sensor to detect motion. Once the motion is detected, we will turn on an LED for a simple demo. You can expand the project based on your needs further.Components usedConnection diagramPIR sensor and Arduino UNO on Wokwi Arduino Simulator Pin 2 of Arduino goes to Digital Output pin of PIR sensor+ Pin of PIR sensor goes to 5 V on the UNO- Pin goes to GND pin of the UNOYou can use the PIR motion sensor and Arduino UNO project page to directly interact with the code, modify it and test it online. No hardware is needed. It is very easy to share the code as well. More information on the PIR sensor is documented on Wokwi Docs page.The code for PIR sensor and Arduino UNO interface*PIR sensor tester*#int ledPin = 13; // choose the pin for the LED#int inputPin = 2; // choose the input pin (for PIR sensor)#int pirState = LOW; // we start, assuming no motion detected#int val = 0; // variable for reading the pin status#void setup() { #pinMode(ledPin, OUTPUT); // declare LED as output#pinMode(inputPin, INPUT); // declare sensor as input#Serial.begin(9600);#void loop() { #val = digitalRead(inputPin); // read input value#if (val == HIGH) { // check if the input is HIGH#digitalWrite(ledPin, HIGH); // turn LED ON#if (pirState == LOW) { // we have just turned on Serial.println("Motion detected!"); // We only want to print on the output change, not state#pirState = HIGH; } } else { #digitalWrite(ledPin, LOW); } // turn LED OFF#if (pirState == HIGH) { // we have just turned off Serial.println("Motion ended!"); // We only want to print on the output change, not state#pirState = LOW; } } } Feedback and questions?If you have any questions, please leave a comment here. To discuss with other enthusiast community, I welcome you to Wokwi Discord channel. Also, let me know what would you like to simulate on the Arduino simulator next? Created a project?: - Please share your project here for your fellow readers @Share your interesting projects and browse through several curious projects from fellow developers and makers on Facebook Wokwi Group!Stay Safe!Don't stop learning!#wokwiMakes Circuit diagram In this tutorial, you'll learn how to create an Arduino PIR Sensor. PIR stands for Passive InfraRed. The PIR sensor is widely used in motion detection applications and this project will show you how to use it to control an LED. When the sensor detects motion, the LED will turn on and the event will be logged via the serial monitor. The PIR sensor detects infrared light emitted by humans and animals. Commonly, it looks for changes in the detected infrared light, which means someone or something has moved within its detection field. When motion is detected, the sensor outputs a HIGH signal. This signal can be read by the Arduino, which in turn, activates the LED. Set up the Arduino on your computer and connect the USB cable. Take the PIR sensor and connect it to the Arduino's 5V and GND for power. Connect the PIR sensor signal output to digital pin 2 on the Arduino. Connect the LED's anode (the longer leg) to digital pin 13 on the Arduino. Connect the cathode (the shorter leg) through a 220Ω resistor to GND. Use the following code to program the Arduino. Open the Arduino IDE, copy and paste the code into a new sketch, and upload it to your Arduino board: #int ledPin = 13; #int sensorPin = 2; #int sensorState = LOW; #int sensorValue = 0; #void setup() { #pinMode(ledPin, OUTPUT); #pinMode(sensorPin, INPUT); #Serial.begin(9600); } #void loop(){ #sensorValue = digitalRead(sensorPin); #if (sensorValue == HIGH) { #digitalWrite(ledPin, HIGH); #delay(100); #if (sensorState == LOW) { #Serial.println("Motion detected!"); #sensorState = HIGH; } } else { #digitalWrite(ledPin, LOW); #delay(200); #if (sensorState == HIGH) { #Serial.println("Motion stopped!"); #sensorState = LOW; } } } } Once you've uploaded the code, the PIR sensor will begin to monitor the area for motion. When a change is detected, the Arduino will turn on the LED and output a message to the serial monitor. Learn the basics that every Arduino maker should know, and it'll open you up to a world of possibilities! Sign up for my circuit tips by email and I'll send you the eBook: If the LED does not light up when motion is detected, check your connections and ensure the LED is properly oriented with the correct polarity. Make sure the PIR sensor is powered with 5V from the Arduino and correctly connected to the input pin. If the LED stays on or off, adjust the sensitivity time-delay potentiometers on the PIR sensor module. It may take a few moments for the sensor to calibrate when first powered on. Verify that the correct pin numbers are used in the sketch according to your physical setup. Sometimes the environment causes the PIR sensor to trigger falsely. Stabilize the sensor and eliminate potential sources of false triggers such as heating vents or moving curtains. More Arduino Tutorials Learn the basics that every Arduino maker should know, and it'll open you up to a world of possibilities! Sign up for my circuit tips by email and I'll send you the eBook: In this project you're going to create a simple circuit with an Arduino and PIR motion sensor that can detect movement. An LED will light up when movement is detected. Watch the video below to see how it works Introducing the PIR Motion Sensor The PIR motion sensor is ideal to detect movement. PIR stand for "Passive Infrared". Basically, the PIR motion sensor measures infrared light from objects in its field of view. So, it can detect motion based on changes in infrared light in the environment. It is ideal to detect if a human has moved in or out of the sensor range. The sensor in the figure above has two built-in potentiometers to adjust the delay time (the potentiometer at the left) and the sensitivity (the potentiometer at the right). Pinout Wiring the PIR motion sensor to an Arduino is pretty straightforward – the sensor has only 3 pins. GND – connect to ground OUT – connect to an Arduino digital pin 5V – connect to 5V Parts required Here's the required parts for this project You can use the preceding links or go directly to MakerAdvisor.com/tools to find all the parts for your projects at the best price! Schematics Assemble all the parts by following the schematics below. Code Upload the following code. /* Arduino with PIR motion sensor For complete project details, visit: Modified by Rui Santos based on PIR sensor by Limor Fried */ #int led = 13; // the pin that the LED is attached to #int sensor = 2; // the pin that the sensor is attached to #int state = LOW; // by default, no motion detected #int val = 0; // variable to store the sensor status (value) #void setup() { #pinMode(led, OUTPUT); // initialize LED as an output #pinMode(sensor, INPUT); // initialize sensor as an input #Serial.begin(9600); } #void loop(){ #val = digitalRead(sensor); // read sensor value #if (val == HIGH) { // check if the sensor is HIGH #digitalWrite(led, HIGH); // turn LED ON #delay(100); // delay 100 milliseconds #if (state == LOW) { #Serial.println("Motion detected!"); #state = HIGH; } // update variable state to HIGH } } } else { #digitalWrite(led, LOW); // turn LED OFF #delay(200); // delay 200 milliseconds #if (state == HIGH) { #Serial.println("Motion stopped!"); #state = LOW; } // update variable state to LOW } } } View raw code Wrapping Up This post shows a simple example on how to use the PIR motion sensor in more advanced projects. For example, you can build a Night Security Light project. If you're an absolute beginner, and you're just getting started, we recommend taking a look at our Free Arduino Mini Course. Thanks for reading. If you like this post probably you might like our next ones, so please support us by subscribing our blog.

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