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| **4** | **Controlling Raspberry Pi with Telegram.** |
|  | Step 1: Open Telegram app in your system or Start "BotFather"  https://hackster.imgix.net/uploads/attachments/247635/screenshot_2017-01-04-23-01-23_sAfa0Kj97Q.png?auto=compress%2Cformat&w=740&h=555&fit=max   * 1. Open "BotFather"   https://hackster.imgix.net/uploads/attachments/247636/screenshot_2017-01-04-23-03-02_UJXUYSGb4B.png?auto=compress%2Cformat&w=740&h=555&fit=max   * 1. Start "BotFather" |

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|  | /start  /start   * 1. Create a new Bot   https://hackster.imgix.net/uploads/attachments/247638/screenshot_2017-01-04-23-05-28_83C81SBskz.png?auto=compress%2Cformat&w=740&h=555&fit=max   * 1. Obtain access token |

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|  | copy the token   * 1. Install "Python Package Index" sudo apt-get install python-pip   https://hackster.imgix.net/uploads/attachments/247645/1005_UcuuP5KzvN.PNG?auto=compress%2Cformat&w=740&h=555&fit=max  Note: Make sure Pi has internet access  https://hackster.imgix.net/uploads/attachments/247647/1006_tSAiZrt6kq.PNG?auto=compress%2Cformat&w=740&h=555&fit=max   * 1. Install "telepot" sudo pip install telepot   https://hackster.imgix.net/uploads/attachments/247648/1007_z5je7Y6JUK.PNG?auto=compress%2Cformat&w=740&h=555&fit=max  Step 4: Run the Python Code  4.1 Clone the git  git clone https://github.com/salmanfarisvp/TelegramBot.git |

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|  | * 1. Paste your Bot Token here bot = telepot.Bot('Bot Token') Note: 1.6 for more details   2. Run the Code python telegrambot.py   All set, now time to connect the Pi and LED. Step 5: Connect LED to Pi  https://hackster.imgix.net/uploads/attachments/247655/simpl_5RVGKHTPua.PNG?auto=compress%2Cformat&w=740&h=555&fit=max  Step 6: Send Command  6.1 Start our Bot  https://hackster.imgix.net/uploads/attachments/247649/screenshot_2017-01-04-23-44-12_QEgxuLzN1g.png?auto=compress%2Cformat&w=740&h=555&fit=max |

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|  | https://hackster.imgix.net/uploads/attachments/247650/screenshot_2017-01-04-23-44-46_DLm5lgfeyw.png?auto=compress%2Cformat&w=740&h=555&fit=max  6.2 Send "on" & "off"  https://hackster.imgix.net/uploads/attachments/247651/screenshot_2017-01-05-00-03-52_qaqwfc721W.png?auto=compress%2Cformat&w=740&h=555&fit=max |

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|  | https://hackster.imgix.net/uploads/attachments/247652/screenshot_2017-01-05-00-04-18_HiB24Wl96H.png?auto=compress%2Cformat&w=740&h=555&fit=max  Look at your Pi, you can see the LED on and off when you send "on" and "off" to our bot. Code:  import sys import time import random import datetime import telepot  import RPi.GPIO as GPIO  #LED  def on(pin):  GPIO.output(pin,GPIO.HIGH) return  def off(pin):  GPIO.output(pin,GPIO.LOW) return  # to use Raspberry Pi board pin numbers GPIO.setmode(GPIO.BOARD)  # set up GPIO output channel GPIO.setup(11, GPIO.OUT) |

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|  | def handle(msg):  chat\_id = msg['chat']['id'] command = msg['text']  print 'Got command: %s' % command if command == 'on':  bot.sendMessage(chat\_id, on(11)) elif command =='off':  bot.sendMessage(chat\_id, off(11))  bot = telepot.Bot('Bot Token') bot.message\_loop(handle) print 'I am listening...'  while 1:  time.sleep(10) |