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| **2** | **Displaying Time over 4-Digit 7-Segment Display using Raspberry Pi.** |
|  | Control 4 digits-7 segments LED display with TM1637 controller  **Connection scheme Raspberry Pi**  Connect the   1. **TM1637 Function RPI Raspberry** LED to   **Board Pin Pin Function** your  Raspberry  Pi according  to the   1. GND Ground 14 GND following   diagram:  + 5V   1. VCC Power 4 5V 2. DI0 Data In 18 GPIO 24 3. CLK Clock 16 GPIO 23   **TM1637 script**  In order to control the LED, we use a special script with pre-defined functions. Various functions are available in the script, for example you can display numbers and adjust the intensity of the LEDs. Download the script with the command: |
| wget https://raspberrytips.nl/files/tm1637.py |
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|  | **Code:** |
| import sys import time import datetime  import RPi.GPIO as GPIO import tm1637  #CLK -> GPIO23 (Pin 16) #Di0 -> GPIO24 (Pin 18)  Display = tm1637.TM1637(23,24,tm1637.BRIGHT\_TYPICAL)  Display.Clear() Display.SetBrightnes(1)  while(True):  now = datetime.datetime.now() hour = now.hour  minute = now.minute second = now.second  currenttime = [ int(hour / 10), hour % 10, int(minute / 10), minute % 10 ]  Display.Show(currenttime) Display.ShowDoublepoint(second % 2)  time.sleep(1) |