import subprocess

import time

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import RPi.GPIO as GPIO

input\_pin = 23

GPIO.setmode(GPIO.BCM)

GPIO.setup(input\_pin, GPIO.IN)

while True:

if (GPIO.input(input\_pin)):

print('Button Pressed')

print("Get ready with your webcam")

print('Taking snap in next 10seconds')

time.sleep(10)

print("Taking snap")

subprocess.call(['fswebcam', '-r', '720x340', 'example.jpg'])

print("Thresholding image")

subprocess.call(['convert', './example.jpg', '-threshold', '+20%', 'speech.jpg'])

print("Performing OCR")

subprocess.call(['tesseract', 'speech.jpg', 'speech'])

print("The detected text is")

subprocess.call(['cat', 'speech.txt'])

print("Speaking text")

subprocess.call(['festival', '--tts', 'speech.txt'])

GPIO.cleanup()