ASSIGNMENT-3

Raspberry pi programming

Date	04 October 2022
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Maximum Marks	2 Marks

8

Question-1

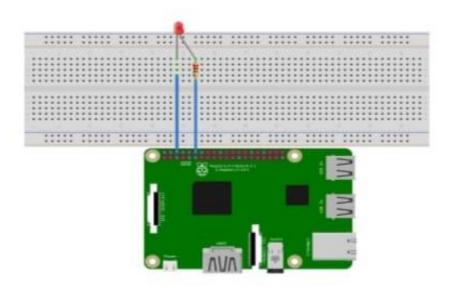
Write python code for blinking LED and traffic lights for Raspberry pi

Solution

1. Python code LED blinking for raspberry pi:

from gpiozero import LED	# importing GPIO pins as LED
from time import sleep	# importing time function as sleep
red = LED(18)	# red LED is connected to GPIO 1
while True:	# infinite loop
red.on()	# red LED is on for 1 second
sleep(1) red.off()	
sleep(1)	

Circuit: LED blinking using raspberry pi



2.Python code traffic light for raspberry pi:

from gplozero import LED	#importing GPIO pins as LED
from time import sleep	# importing time function as sleep
red = LED(23)	# red LED connected to GPIO 23
yellow = LED(07)	#yellow LED connected to GPIO 07
green = LED(19)	# green LED connected to GPIO 19
while True:	#infinite loop
red.on()	#red LED is on for 5 seconds to make stop
sleep(5)	
red.off()	
yellow.on	# yellow LED is on for 2 seconds to make ready
sleep(2)	
yellow.off	

green.on() #green LED is on for 2 seconds to make go
sleep(5)
green.off()

Circuit: Traffic light using raspberry pi

