and PIN39 (GROUND)

Teacher's Signature

OPU	Date
pic	2 9
	Veite a program to light an LED through
	Python program on Raspberry Pi
	One of the biggest selling points of the
	Respherry Pi is its GP10 or General Purpose
	Import Output ports. They are the little pins
D	Siking out of the circuit board and allow
1	en lo plug narious devices into your
	Raspberry Pi. With a little programming, you can
	then control or detect what they are doing.
(emponents:
6	a breadboard, an LED and a 330 ohm
	Neister
_ K	Caspberry li GIP10 pins:
	of who the villaide would be being
1	omuted to electronic circuits. The Raspberry
	can control LED'S tuning them on or off.
	, or motors or many other Things. It also
	able to detect whether a switch has been
	pussed or temperature or light. The new
	40 pin Raepberry Pi 15 shares exactly the same
	agent of pens for the top is hous of
	Gillo pins In the Can sam Edukit yell'
	learn to control 10015 & a buszer and
	detect when a button has been pussed.
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The circuit consists of a power supply, an NED

That lights when the power is applied and
a resister to limit the convent that can

flow through the circuit You! I be using one
of the GIND to act like -ve or O not end of bathy

The +ve end of the bathery will be provided
by a GIPIO pin. Here we'll nee pin 18. When

They're taken high which means its output is

3.3 V, the Lto will light.

Code :-

create new text file "LED. py" by typing the following:

Type in the following code:

import RP; GPID as OTPIO

import time

OPIO. setmede (GPIO.BLM)

01010. setwaining S (False)

GPIO SULUP (18. GPIO.OUT)

print (" LED on "

GIPIO. OUTPUT (18, GIPIO. HIGH)

time -sleep 1)

prent "LEO off"

0,010 output (18,0000,100)

One you've togged all the code of checked it, save of exit the text edilor with "GHX", "y", "enter"

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