

## Lab - 03

### Python - Hello World Program

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#### **Problem**

Run your first python program “Hello World!”

#### **Solution**

Things you will need:  
Raspberry Pi + SD Card  
Keyboard + Mouse  
Monitor + HDMI Cable  
Power Supply

#### **Discussion**

1. Start by opening a Terminal, by click the icon in the taskbar.
2. Start by creating a new directory, this is where we are going to store all our scripts for this series of worksshop, make a directory called iotworkshop:  
`mkdir iotworkshop`
3. We can use the command `ls -l` to view the contents of the current directory:  
`ls -l`
4. You should be able to see the directory you created.
5. Now we need to change our current directory to the newly created iotworkshop directory:  
`cd iotworkshop`
6. We can use the command `nano`, to open it in a text editor.  
`sudo nano helloworld.py`
7. Now enter the following code:  
`#!/usr/bin/python`  
`print "Hello World!"`
8. Press `ctrl+X` to exit, you will be prompted to save the file, simply press `Y`, and then be you will be prompted to give the file a name.
9. It will automatically use its current name `helloworld.py`, so just hit `enter` to accept.
10. To execute your script, simply enter the following command:  
`sudo python helloworld.py`