

## e-Yantra Robotics Competition (eYRC-2018)

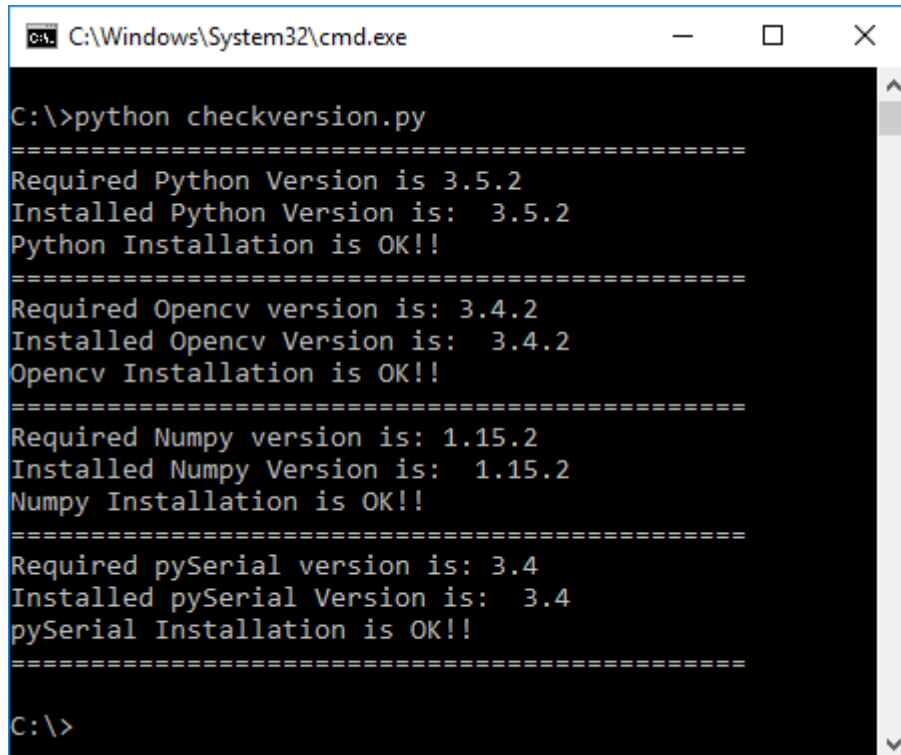
### Task 0: Ant Bot

Welcome to Task-0 of Ant Bot!!

The aim of this task is to get you started with installation of required software. You need to install following software/libraries and run the provided python script to test the installation of the software/libraries.

You will find the following folders in Task 0 folder along with this Read Me file.

- **First Folder is Installation\_Instructions:**
  - Please find the *Installation\_Instructions\_for-Linux.pdf* and *Installation\_Instructions\_for-Windows.pdf* file in this folder. As the name suggest, depending on operating system installed on your machine, you can follow the installation procedure to **install** the following softwares:
    1. Python
    2. NumPy
    3. OpenCV
    4. pySerial
- **Second Folder is Test\_setup:**
  - Please find the file *checkversion.py*
  - After installing the software/libraries , open Terminal/Command Prompt.
  - From Terminal/Command Prompt change directory (using *cd* command) to *Test\_setup*.
  - Type *python checkversion.py* (for Windows machine) and *python3 checkversion.py* (for Linux machine).
  - You should get output as shown in Figure 1.
  - Note that Python, OpenCV, NumPy and pySerial installation comes OK!!
  - In case of discrepancies, make sure that you make necessary corrections.



```
C:\Windows\System32\cmd.exe

C:\>python checkversion.py
=====
Required Python Version is 3.5.2
Installed Python Version is: 3.5.2
Python Installation is OK!!
=====
Required Opencv version is: 3.4.2
Installed Opencv Version is: 3.4.2
Opencv Installation is OK!!
=====
Required Numpy version is: 1.15.2
Installed Numpy Version is: 1.15.2
Numpy Installation is OK!!
=====
Required pySerial version is: 3.4
Installed pySerial Version is: 3.4
pySerial Installation is OK!!
=====

C:\>
```

*Figure 1: Output Window after running script*

- **Submission Instructions:**

- If your checkversion.py runs with all OK!!, take the screen-shot of terminal and save it as “output.jpg”. In Test\_setup folder, a file named “output.csv” gets saved automatically.
- Save both the files and “checkversion.py” in a folder #Teamid\_Task0. For example, if your Team ID is 1001, the folder should be named 1001\_Task0.
- Compress the folder into zip format and upload the .zip file as per instructions on Portal Interface.

**Note:** Do not edit any line in “checkversion.py” or in “output.csv”. The files submitted by you will be run through a test script for automatic grading. Teams making any changes will be disqualified.