Lab Report No: 04

Report Name: Introduction to Python

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Definition

Python is an easy to learn, powerful programming language. It has efficient, high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, togetherwith its interpreted nature, make it an ideal language for scripting and rapidapplication development in many areas on most platforms.

Features or characteristics:

- 1.Simple
- 2.Easy to

learn

- **3.** Free and Open Source
- 4. Portable
- 5. High-Level Language
- **6.**Multi-Platform
- 7.Interpreted
- 8. Object Oriented
- 9. Extensible
- 10. Embeddable
- 11. Extensive Libraries
- 3. Methodology

Section 3.1: Setup of Python Environment

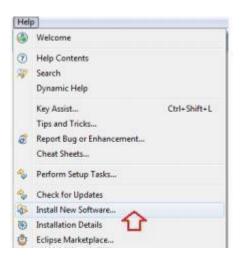
STEP 1: Open Eclipse and setup a correct access to Internet

STEP 2: Installing python environment using Eclipse

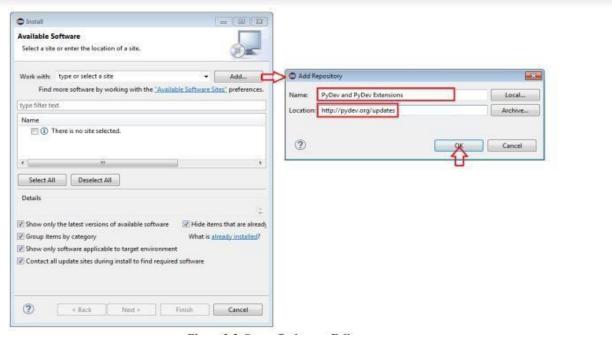
Graphical Interface1:

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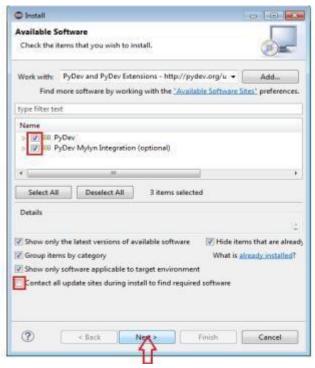
1. To install PyDev and PyDev Extensions using the Eclipse Update Manager, you needto use the Help > Install New Software... menu (note that in older versions, this would be the 'Find and Install' menu) as shown in the following figure:



- 2. In the next screen, add the update site(s) you want to work with (see the figurebelow). The available update sites are (see Figure):
- * http://pydev.org/updates

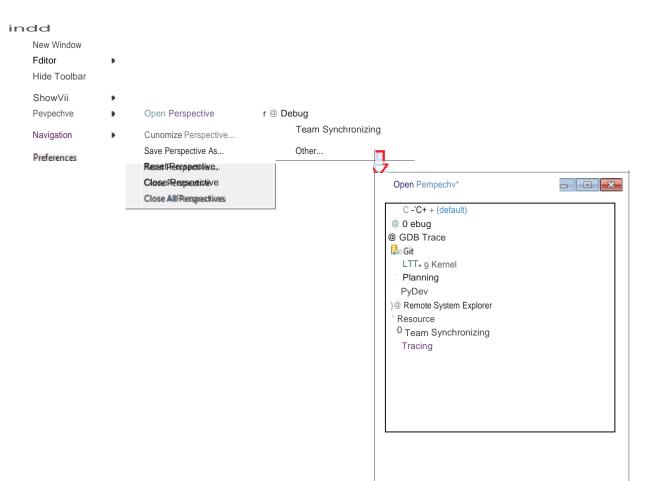


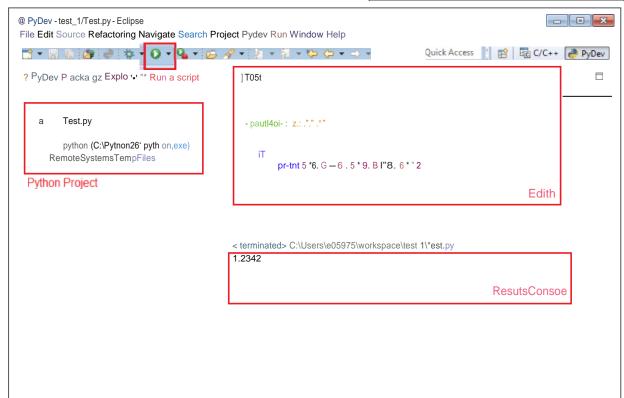
3. After entering the update sites, select the update site you entered or select "All available sites" and add a filter for PyDev, so that it shows the contents of all the update sites that have PyDev, then select what you want to install and click 'Next'



STEP 2: Checking the installation: You can verify if it is correctly installed going to the menu 'window> preferences' and checking if there is a PyDev item under that. After that eclipse will display the graphical interface for python perspective, the main components are (see Figure 8):

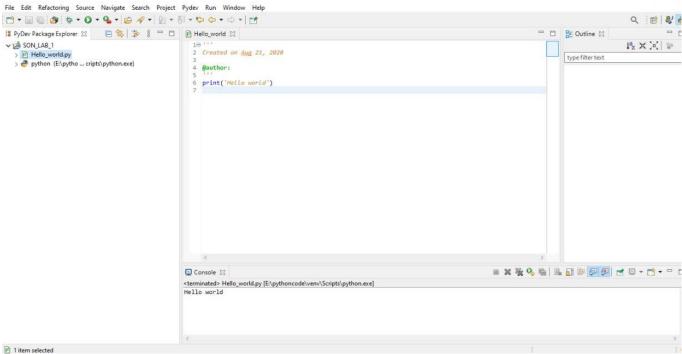
- \Box Project space is the section where all your python projects are visualized,
- \square Project Editor is the section where python scripts can be edited,
- ☐ Console allows the visualization of results father running a python script,



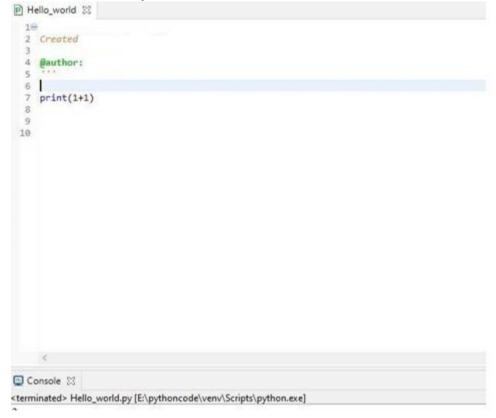


Exercise:

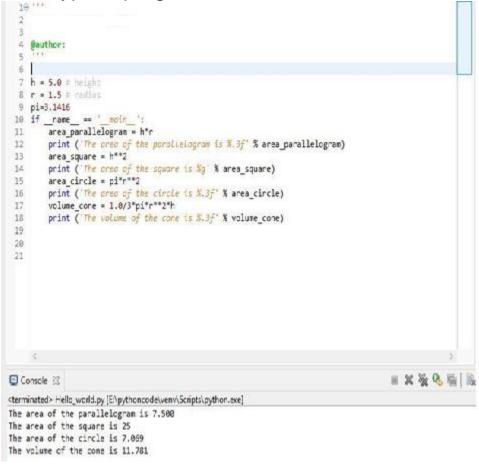
4.1.2 :Print Hello world



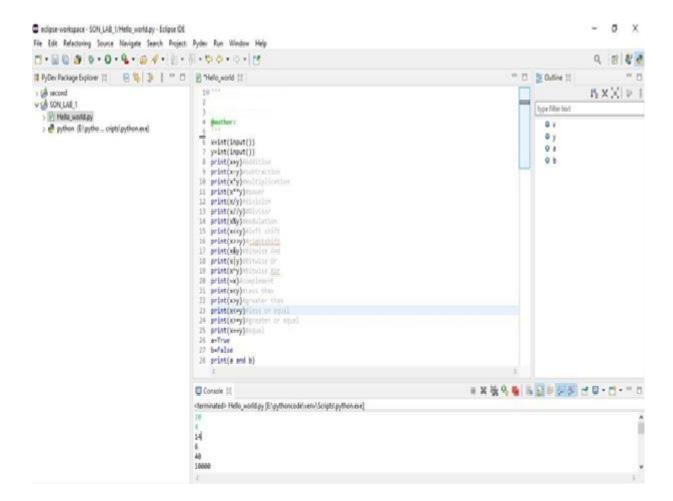
4.1.3 compute 1+1



4.1.4. Type in programe test

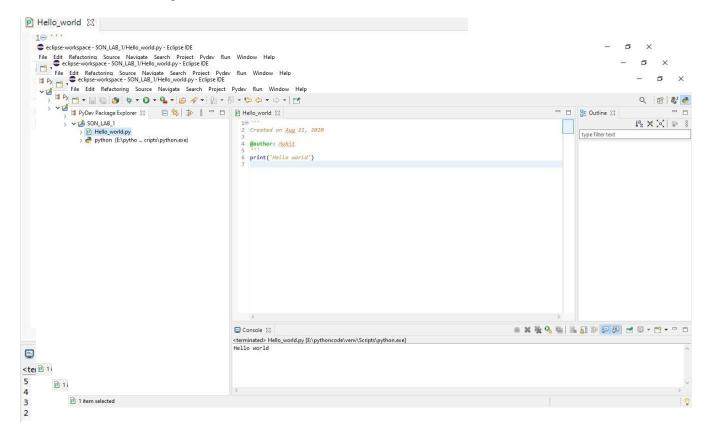


4.2.1Expression



4.2.1IF Statement:

4.2.2While Loop



4.2.3 for loop

