MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY

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Lab Report No : 04

Lab Report Name : Introduction to Python

Course Name : Computer Networks Lab

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Introduction to Python

Objective:

- Setup python environment for programing.
- Learn the basics of python.
- Create and run basic examples using python.

Theory:

Definition of Python: Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

Main Features of Python:

- Easy to code
- Free and Open Source
- Object-Oriented Language
- GUI Programming Support
- High-Level Language
- Extensible feature
- Python is Portable language
- Python is Integrated language
- Interpreted Language
- Large Standard Library
- Dynamically Typed Language

Setup of Python Environment:

- **Step 1:** Open Eclipse and setup a correct access to Internet.
- **Step 2:** Installing python environment using Eclipse Graphical Interface.

To install PyDev, we need to use Help > Eclipse Marketplace and installed PyDev

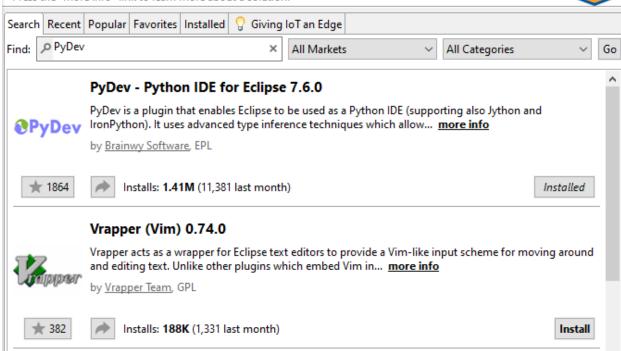
- Python IDE for Eclipse 7.6.0.



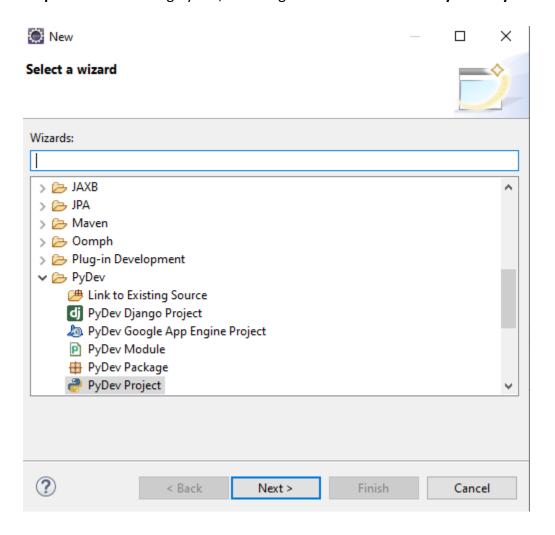
Eclipse Marketplace

Select solutions to install. Press Install Now to proceed with installation. Press the "more info" link to learn more about a solution.





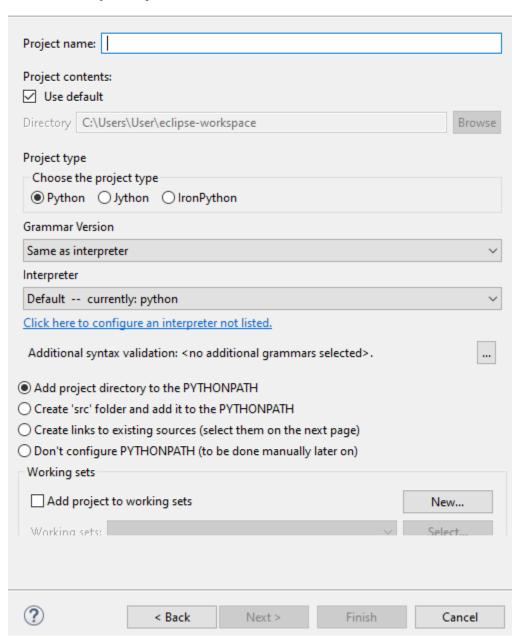
Step 3: After installing PyDev, have to go File > New > Other > PyDev > PyDev Project.





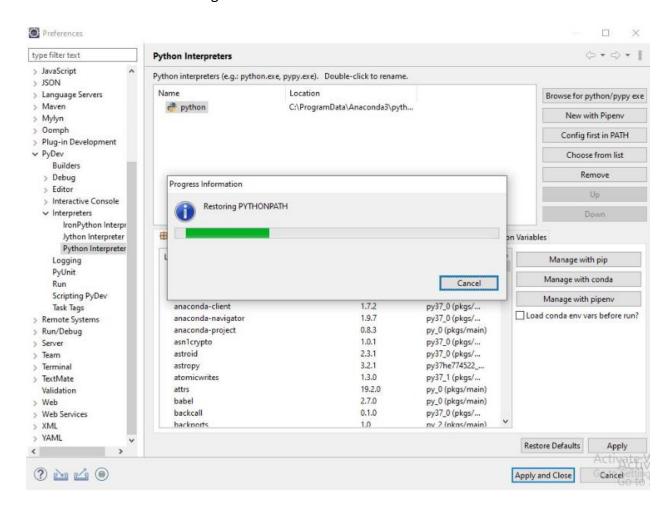
PyDev Project

Create a new PyDev Project.

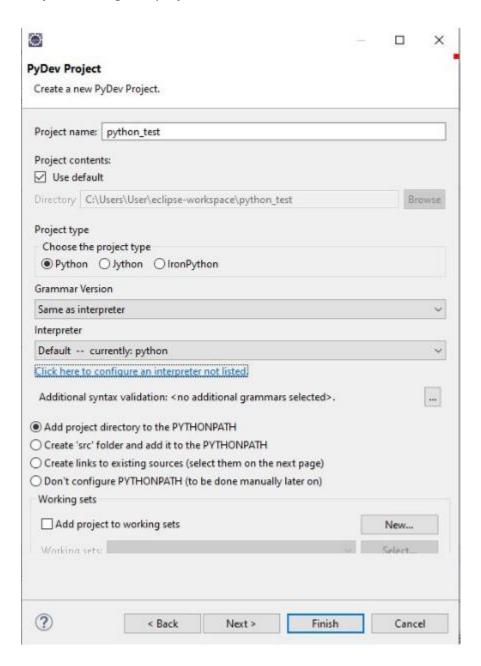


X

Step 4: To configure an interpreter , have to go "click here to configure an interpreter not listed" and select "Config first in PATH".



Step 5: Then, give a project name and click "Finish" button.



Exercise 4.1.2: Write a Hello World program

```
Python1 
print("hello world")

Console 

<a href="mailto:character"><a href="mailto:character"><a
```

Exercise 4.1.3: Compute 1+1

Exercise 4.2.2: The if statement:

```
Python1 ⋈

1 a = 4
2 b = 3
3
4 if a > b:
5 print("a is greater than b")
6 else:
7 print("b is greater than a")

Console ⋈
<terminated> Python1.py [C:\ProgramData\Anaconda3\python.exe]
a is greater than b
```

Exercise 4.2.3: The while Statement

```
Python1 ⋈

1  y = 1
2  while y<4:
3    print(y,end=" ")
4    y = y+1

Console ⋈

<terminated> Python1.py [C:\ProgramData\Anaconda3\python.exe]
1 2 3
```

Exercise 4.2.4: The for Statement