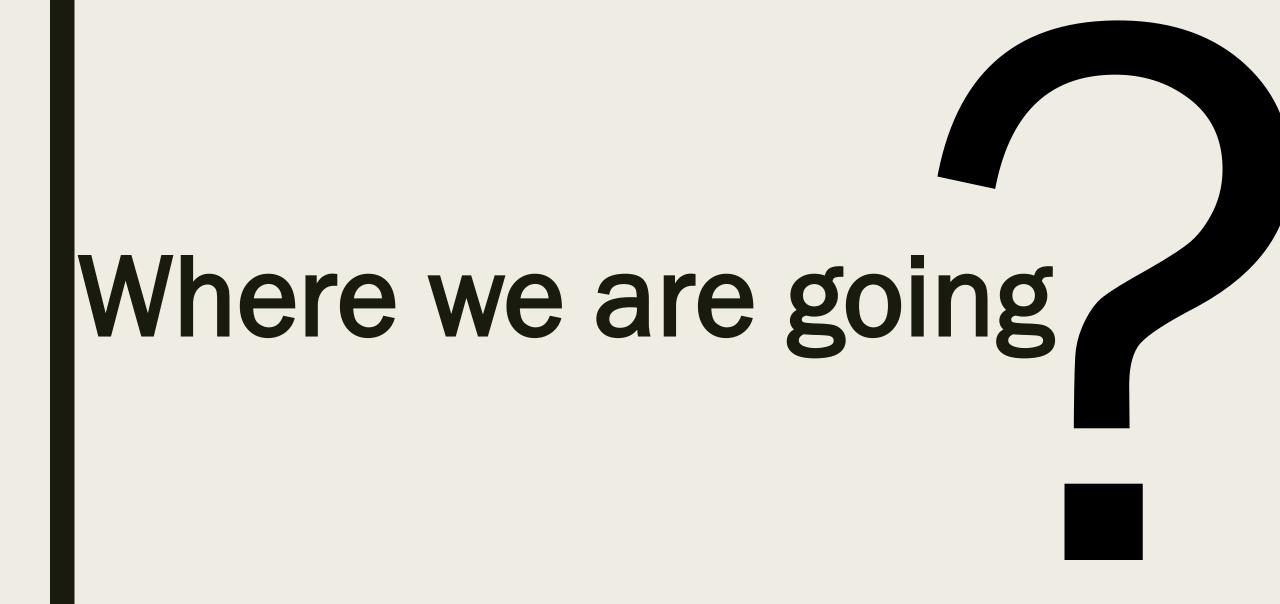


Python Crash Course

Abdelrahman A. Mohamed

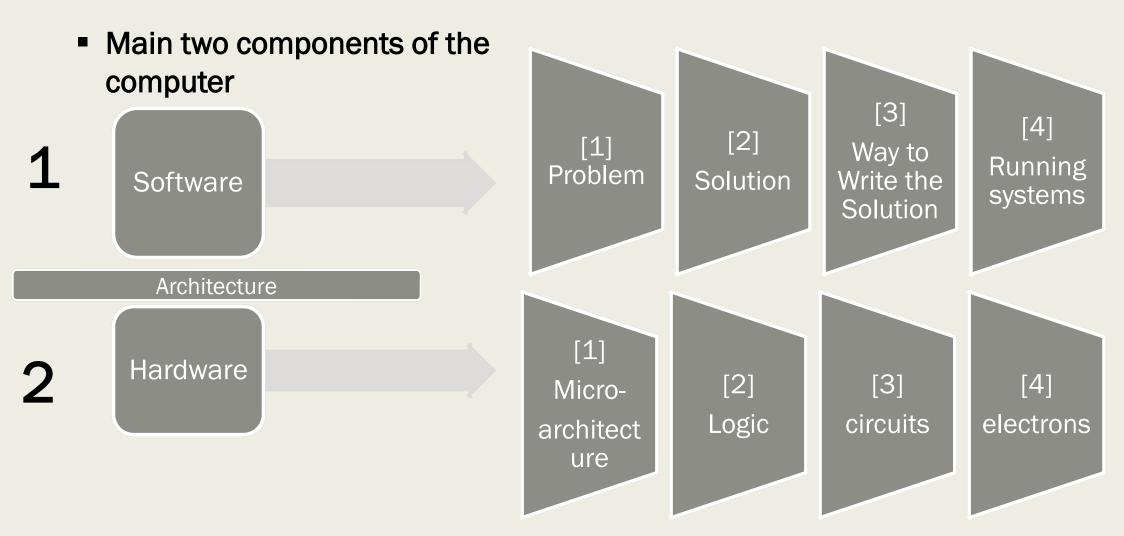


Main Headlines.

- What is the programming?
- Why we need it?
- Human languages
- Programing languages
- From the problem to solution
- Why Python?
- Python Integrated Development Environment IDE (Anaconda Environment)
- Frist Program

What is the programming and Why we need it?

■ To Answer these Questions We Need to understand how the computer is working?



Human Languages

■ How to say how are you? in different languages by different ways?

Arabic	English	Turkish	Spanish
كيف حالك	How are you	Nasılsın	Cómo estás ?
ايه الاخبار	What's up	Nasıl gidiyor	¿Qué tal?
كيفك	How it's going	Ne haber	Cómo andas ?

As we see above, we can do the same thing by different ways

So, Can we do this with programming?

Programming languages

-Make a Program to print "hello world" three times .

```
In [4]: for i in range(3):
    print("hello world")

hello world
hello world
hello world
```

```
In [5]: i=0
while(i<3):
    print("hello world")
    i+=1

hello world
hello world
hello world</pre>
```

```
In [6]: print("hello world")
print("hello world")
print("hello world")

hello world
hello world
hello world
```

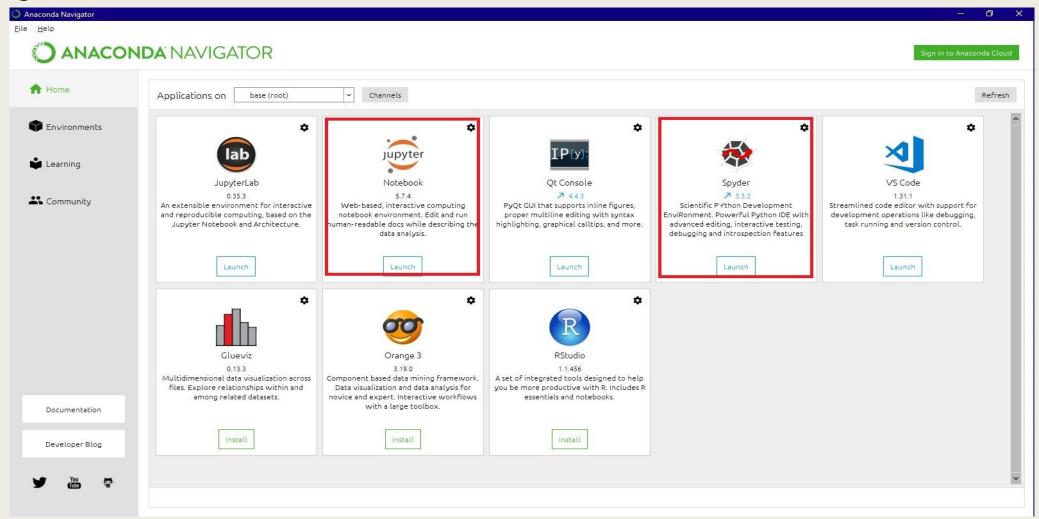
and that prove there is no unique solution for any problem may there is more than one solution

Why Python?

- Open Source
- Easy to learn
- A lot of libraries
- Web programming
- Windows applications
- Mobile applications
- Security
- Artificial intelligence

Rank	Change	Language	Share	Trend
1	^	Python	25.36 %	+5.2 %
2	4	Java	21.56 %	-1.1 %
3	1	Javascript	8.4 %	+0.0 %
4	^	C#	7.63 %	-0.4 %
5	44	PHP	7.31 %	-1.3 %
6		C/C++	6.4 %	-0.4 %
7		R	4.01 %	-0.3 %
8		Objective-C	3.21 %	-0.9 %
9		Swift	2.69 %	-0.7 %
10		Matlab	2.06 %	-0.3 %

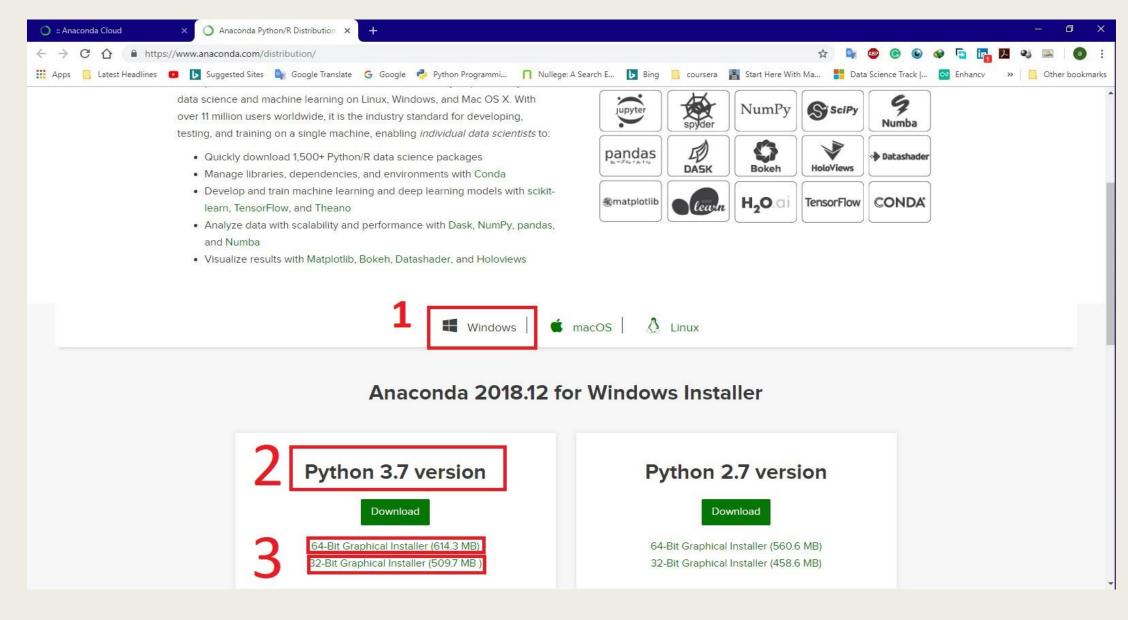
Python IDE and Anaconda Environment.



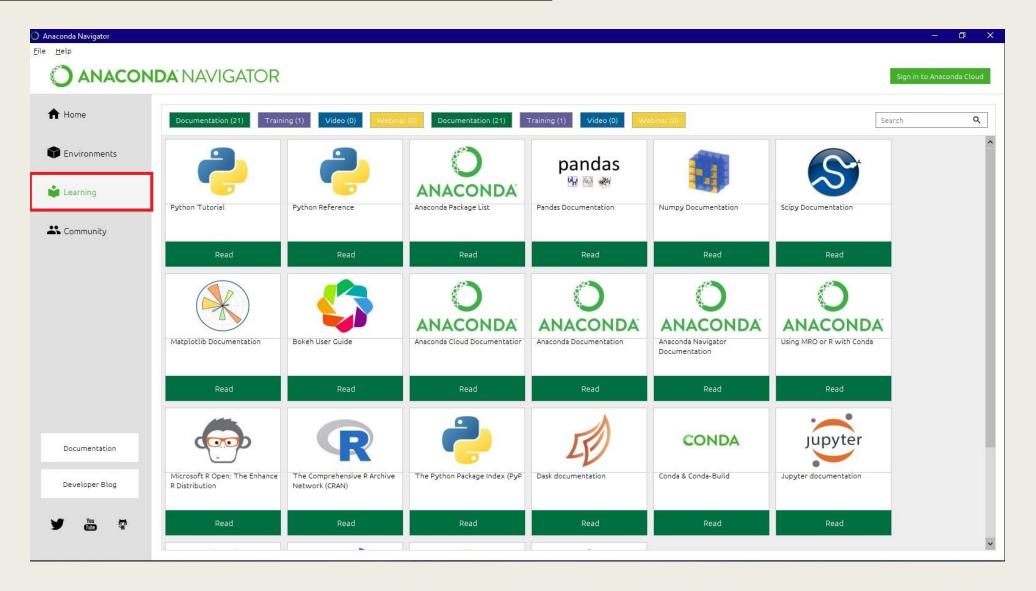
Download link:

https://www.anaconda.com/distribution/

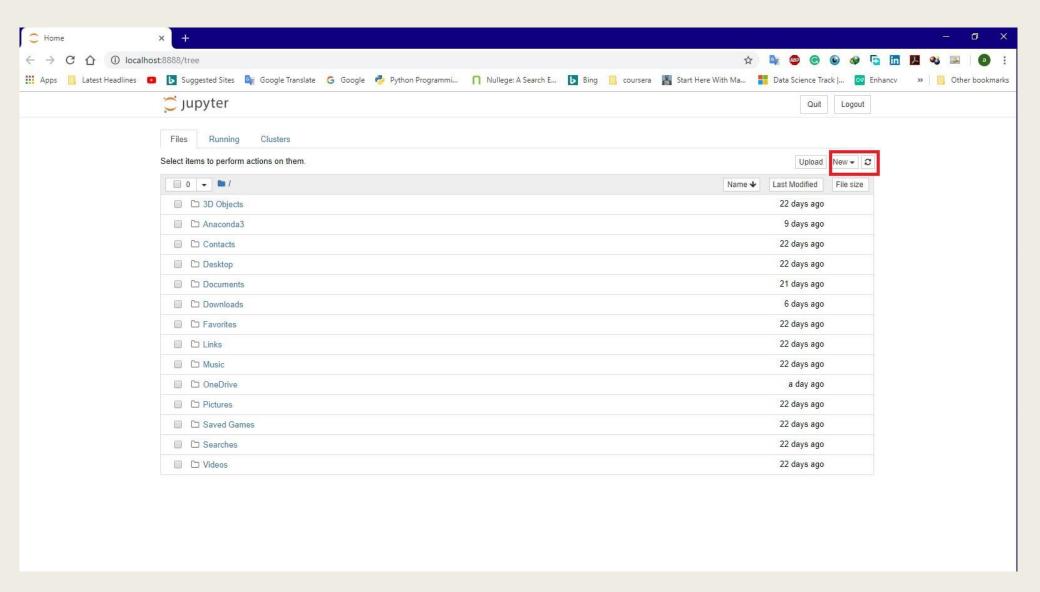
How to download?



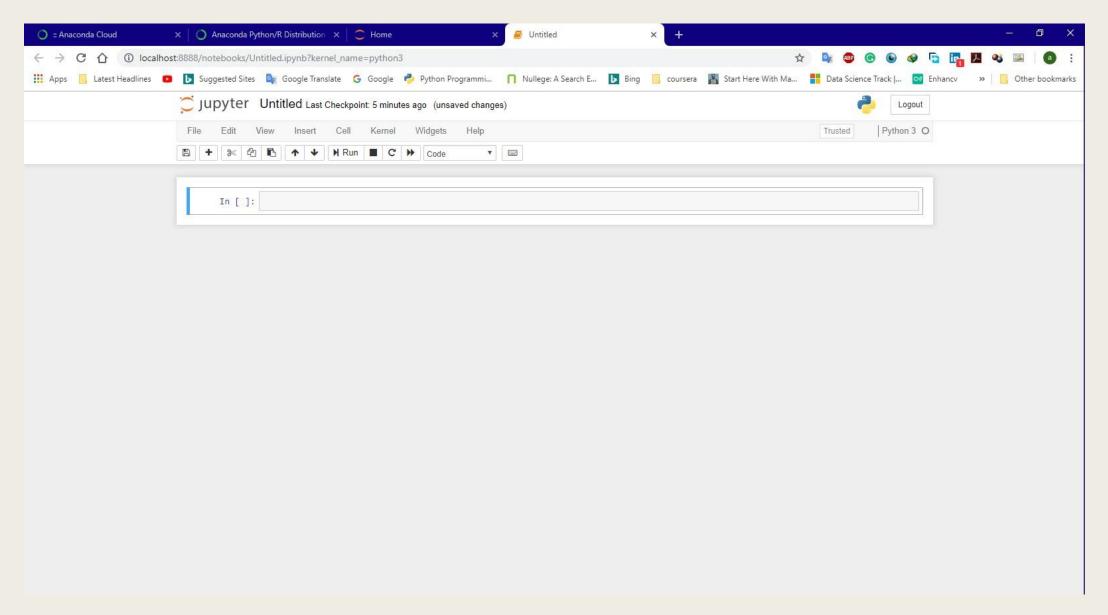
Anaconda Environment.



Jupyter Notebook



Jupyter Notebook



Our Frist program

