Engr350

Lecture #2. 4.7.19

Compiler is faster. İnterpreter do code everytime.

Interpreter is easily to develop.(look at reasons)

Check pep8 on installations link

Julia starts from 1 in lists

İn phyton every elements in lists can have different type of elements(int float string…)

[]-lists

()-tuples

{}-sets

[]-have particular positions

()-has orders like lists ---are immutable

mete=(1,2,3,4)

mete(1)=5

File "<input>", line 1

SyntaxError: can't assign to function call

Sets are unordered

Not dublicate values

When you try to add second same item to the set --- there won’t be error but will not save it againg

Phyton data types--- know it –it can come on exam---check slides---Coolections and compound data types

They have more than one value ---lists, sets?

Lists and tuples are ordered

Sets and dictionaries are not

For all them can keep diifferent data types at the same time

Just tuples are immutable

Dictionaries are semi-immmutable--- you can not change key but can change values of keys

True+True gives 2 because Phyton thinks that True is 1 or different than 0 --- False is 0

Numerical data can be Discerete or Continuous

Cardinal, ordinal nominal

Cardinal: not have fractions or decimals, using for counting

Ordinal: tells us position of sth

Nominal:used only as name or to identify sth…..zip code:34450---not comparable

Apartment numbers are ordinal numbers---

6th Street can be nominal or ordinal with other information in text.

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Fill the worksheet and do same thing for

ordinal,cardinal,nominal numbers

İnterpreter-compiler

Sets,lists,tuples,dictionaries

Strong-weak typing

Statically-dynamically typed

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typeCasting

float()---int()---round()

eval()--- help to convert type to float and integer with respect to an input

in phyton to protect our global variables from changesuse tuples

type() ---isinstance()

isinstance(x,int)

java and phyton are strongly typed languages…

java and C are statically typed so you can change type of elemtns to other types

float->sting kind of thing

java and C -type check in compile time

javaScript and Phyton- at runtime

statically: variables have type

dynamic: values have type

for loop: #iterations

while loop:condition

\n- enter

\t- tab character

Use append to add just an element

Use insert to add sth mid of the list,set…

Point = x,y,z

Point =(x,y,z) are sam thing