1) Framework with which cs. & algorithms + Dala Structures Fil 3/15/17 2) Python programming language WHAT IS COMPUTER SCIENCES et problem solving DStudy of problems, probsolving, solutions, & p.s. process De Goal: Developas algorithm-step by step list of instruction for solving a problem D. Solely computer work (computers stools For ps.) DStudy of computation (problems - 1621 == & ! = computable study of existing /manchiston+ algorithms) Drive car and don't * Abstraction- separates logical & physical perspectives Know how engine work * Interface - Functions provided by maker for elient CHEROLD CHEROLD to understand/use for purpose despited batraction procedural abstraction - like import mathomallisard - Long know cabulation delails, but know deliusage PROGRAMMINGO > programming - process of Adhing 24 219011thing 8 encoding it into gorladion (programming lang) be executed by 2 computer Control Structures-D Languages Previde control constructs/data-lupes to represent algorithm & manipulate dala -iteration (while, far) D comps store data -strings of binary digits -sciection DData types - Novide strings W/ Macanina (16, clse, diff built is data dyges primative D.T. Dal Declan W nested METRYCTURE List Comprehension Abstraction (better def) - a process that hides For X in Tand (1110)

(Dothing to X

a appearate

w - Thing for X in angel) devails of a particular function to allow user to view avery high level I mplementation-integendent W=CKHFOVXIVEDIFXAZ=O] > Abstract D>+aTripe (ADT)logical description of thou 1393 how we view Lata + operations that are allowed eventually constructed a Wo regard to how they will be implemented prometing level Encapsulation-hilling details From user3 view, of abstraction · Called information hiding to enerpsuatedata Data Structure - implementation of a ADT

- Phys view of data of grown and ing constructs.

Cristafak

Review of CompSci: