## Assignment-2 Roll: 3218/0306020

Ans: 1) Numbers: Number data type store numeric values. Number objects one created when you assign a value to them.

- 2) strings: Strings en python are edentified as a contiguous set of characters represented en quotation marks (bothe quotes)
- 3) Lests: Lists wie most versatile of python's compound datatypes. A list contains etems separated by Comma and enclosed within square brackets ([])
- 4) Tuples: A tuple is another sequence data type that is similar to list. A tuple consists of number of values separated by commas, here tuples are endand with in parentusis.
- 5) Dictionary: python's dictionaries are kind of half table type. They work like associative arrays (or) hashes found in perl and consist of key-value pairs. Dictionaries are enclosed with in carry braces.

3) Briefly Explain history of pythonis Ans: Python on conceived on the late 1980s by Gui do van Rossun at centrum wiskunde beinfor materca (CwI) in Netherlands as a successor total ABC language capable of exception handling and enterfacing with Amoeba operating system - Its implementation began in December 1989. van Rossun Shouldered sofe responsabelaty for project until 12 July 2018, when he announced hes permanent vacation " from her responsbestes as python's Benevalent of ctator for Life, ile the python Community bestowed upon a totale han to reflect his lung-term commetment as project clifet decision - maker. any une consthen Ans: - Arithmetic operators: used to perform mathematical meaning to sur example operateurs. operator Adding operarids - stepin subtraction wow : 2 voto my situal multiple cation Sample 9616160W no dulus / remainder -Hoor division ex ponent?

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Ans: - Unlike c/c++ etc., python ?s an interpreted object oriented programming language. By interpreted it is meant that each tême a program es run tue entempreter checks twough coole for evors and then enterprets the instruction into modine-reader able bytecode. An interpreter is a translato in Computer's language which translates the given code line-by-line in machine readable byte codes. And of any erviors is encountered it stops translation untill the ever is fixed. in languages leke c' whole code: s'compiled at once. They es tu reason why en c, all the ever are lested during compélation only prent "Inin \_ \_ . This line es correct -- . Inin'#111 print Hello # tuis is wrong : ~ | Desktop | test of python g.py -- This line is correct Traceback (must recent call last):

Fale "g.py", line 15, 100 Name ervior.

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