Assignment - 2

I what the data types in wither? Explain

A) They one 5 Types of data types.

1. Numeric

2. sequence Type

3. Boolean

4. set

5. Dictorony

1. Numeric hours represent the data which has subject to represent the data which has subject on the represent the data which has subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has been defined as a subject to represent the data which has a subject to represe

2. sequence Type: sequence is the ordered tollection of similar last different data types. They are string, List, Tuple.

3. Booken: Boolean disa Type they one two botting value. They are True or floor.

4. set is an woodered collection of data type that is iterable, mutable and no duplicate clement.

When the clement should add in set we use

With built in function add() and remove()

5. Dictionary in tyling is unordered collection of data value. used to store data values like a map Each key - value pair in Dictionary is separated by colon, whose as each key is seperated by comma, Dictionary can be created by Placing a seamence of dement within couly {} separate by comma'.

*Removing derrest in Dictionary. Ly using del keyword.

A 17then was created in 1980's and implementation began is 2. Briefly explain history of Python. 1989 December : python was created by broids van Rossum in The Metherlands as successor to ABC language capable of exception hardling and

interfacing with Amothe operating system pithen's design philosophy emphasizes code readability with its notable use of significant. white space van Accum shouldered sole responsibility for the project as lead developer catil '12 july 2018. Pythen 20 was released in '16 october 2000', Python 3.0 was released in 2008'. Python 2.7 and of life data was intially set at 2005' postponed to 2020

- 3. Explain all the operators in pythen.
- 15 They one 7 types of operators.
 - 1. Astharetic operator
 - 2. Relational operator
 - 3. Assignment operator
 - 4 Legical operator
 - s membership operator
 - 6 Identity operator
 - 7. Bitwise operator.

- 1. Athemetic operator: +, -, * /, * * , 11 , 1.
- 2. Relational gorator: <, > , <= , >= ,!=
- 3. Assignment operator: =, +=, -= /=, *= , 1/=, ** =, 1/=
- 4. Logical operator: and , or, not
- 5. Membership operator: in, not in,
- 6. Identity operator: is, is not
- 7 Bitwis operator = 2, 10, (1), (1), (1), (1)
 - 4. Explain the features of 77thon.
 - * simple * casy to learn
- * Easy to Learn & code: Python is high level booms programming Language. Python is very is easy to Learn as compared to othery laque
- * free & open source: python language is freely available at official website open source mean source code is available to public

* object - at oriented language : one of key features of lighter is object - oriented programming gither supports correct of down, object ancapasablier.

* Until programming support: avaptical users interface can be made using Prats, Prats, Thin Pother Prats is mest popular in creating applical supp with Pother.

* thigh level larguage is python is High-level larguage. when we don't kneed write program in python, we don't kneed to remember the system of whitedware

* Extensible feature: pother is extensible language we can write our pother code into a loss of language.

* object - ab oriented language - one of key features of potter is object - oriented programming object encaparation.

+ true programming support +

coraphical veers interface can be made using Brats, Braty, Thin Python. Prats is most popular in creating graphical app with Python.

* tigh level larguage is python is High-level larguage when we write program in python, we don't kneed to remember the system of wechitecture

* Extensible fecture: python is extensible language we can write our python code into a low art language.

Integrated larguage: Fyther is also an Integrated because we can casily integrated pythen with other begunges.

* Interpreted Layinge: python is interpreted because python code is executed line by line to time.

There is no need to complie python makes casy to deBug.

5. justity why python is interactive interpreted begans? ?

3) python is interpreted barguage because python code is executed line by line. There is no need to compile python code this make it easier to debug our code.

* Agthon is interactive: when a python statment entered.

and is followed by Return and followed by return result will be printed on screen immediately, in the next line. This porticularly advantageous in daugging process.