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Assignment - 3
i) what the data types in python? Enflain
     Tent Type :- Str
     Nouvelle Type :- int, float, complex
      Sequence lyfe: list, tuple, range
      Mapping Type : - dict
      Set Types: - Set, francenset
      Boolean Type: - bool
      Binary type: - bytes, bytearray, memory view
                                         Data Type
                                          Str
     X = "Helloworld"
                                           int
     X = 20
                                          float
      X = 20.5
                                          complex
      X=1;
     x = ["apple", "banana", "cherry"]
                                          list
                                          tuple
     X = ("apple", banana", "cherry")
                                          range
     X = range (6)
                                           dict
    X = [ "nami": "John", "age"; 36}
                                           Set
     X = { "apple", "banana", "Cherry"}
                                            frozen set
     X = frozenset ({ apple ", banana", "cherry"}
                                            pool
    X = True
                                             bytes
    X = b"Hello"
                                             bytearray
    X = bytearray (5)
                                             memory view.
    X = memory wew (byte (5))
```

2) Brieffly enflain history of Python A) Python was conceived in 1980 by Guido van Rossum at Centrum wiskumade & Information (Cw) Python was developed by Python software foundation. Python 2.0 was released in 2000 Python 2.0 was released in 2008 Python 2 code does not run unwodified on Python. 3) Enflain all Oferators in Python. A) Anithmetic Operators: - +, -, x, 1, 0/0, *, x, 11 Assignment Operator :- =, +=, -=, \star =, l=, l0=, l0=, 11=, **=, =, \=, \=, \=, アクニン 仕生・ Comparison operator :-==,!=,7, L, >=, L= Logical operator :- and, or, not Identify operator :- is, is not. Membership operator: - in, not in Bêtwise operator: - l;1,1,0, 1,>> 4) Enplain the features of Python A) 1. Python is easy to learn and rise. 2. Python is more enpressive means that it is more

understable and readable.

3. Python is an interpreted language.

- 4. Python can run equally on different platforms such as windows, Linun, whix and mancintosh etc.,
- 5. Free and Open source.
- 6. Python is object oniented Language.
- F. Python has a large and brad library and provides rich set of module.
- 8. Graphical riser interfaces can be developed rising
- 9. It can be easily integrated with languages like C, C++, JAVA, etc.
- 5) Justify why Python is interactive interested
- A) -> Python Program runs directly from the Source code
 - -> Each time Python programs are executed code

 -) It is perocessed at quitine by the interpreter.

 The perogram need not be compiled before its
 - execution.) It's dimilar to PERLanp, PHP.