**Day – 3 Assignment – 2**

1)  What do you understand by pickling and unpickling in python?

Pickling is a way to convert a python object (list, dict, etc.) into a character stream. The idea is that this character stream contains all the information necessary to reconstruct the object in another python script.  
We use -  
**import** pickle  
   
pickle has two main methods. The first one is dump, which dumps an object to a file object and the second one is load, which loads an object from a file object.  
We need to know where we should use pickling. It is very useful when you want to dump some object while coding in the python shell. So after dumping whenever you restart the python shell you can import the pickled object and unpickle it(deserialise).

Example:-

db1file = open('examplePickle', 'ab')#pickling

pickle.dump(db1, db1file)

db1file.close()

db2file = open('examplePickle', 'rb')     #unpickling

db2 = pickle.load(db2file)

2) What is the difference between list and tuple?

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| Diff/datatype | list | tuple |
| Representation | Lis=[] | Tup=() |
| Characteristic | Mutable | Immutable |
| Speed | Less fast than tuple | Faster than tuple |
| Usage | Used more for insertion and deletion | Used more for accessing of data |