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| Experiment No.6 |
| Serialization in python using Pickel |
| Date of Performance: |
| Date of Submission: |

**Experiment No. 6**

**Aim**: Serialization in python using Pickel

**Objective:** To introduce basic concept of Pickel module **Theory**:

* What is Serialization?
* Serialization is the process of converting a Python object into a byte stream that can be stored in a file or transmitted over a network.
* What is Pickle?
* Pickle is a Python module used for serializing and deserializing Python objects.
* Why Pickle?
* Pickle provides a convenient way to save Python objects to disk and load them back into memory later.
* How to use Pickle?
* The pickle module provides two main functions: dump() for serialization and load() for deserialization.

1. **pickle.dump(obj, file)**:
   * The **pickle.dump()** function is used to serialize a Python object **obj** and write it to a file specified by the file object **file**.
   * This function takes two parameters:
   * **obj**: The Python object to be serialized.
   * **file**: A file object opened in binary write mode ('wb') where the serialized data will be written.
2. **pickle.load(file)**:
   * The **pickle.load()** function is used to deserialize data from a file specified by the file object **file** and reconstruct the original Python object.
   * This function takes one parameter:
   * **file**: A file object opened in binary read mode ('rb') from which the serialized data will be read and deserialized.

**Code:-**

import pickle class Employee:

pass

f = open('emp.dat', 'wb') n = int(input('How many employees?')) for i in range(n):

id = int(input('Enter id:')) name = input('Enter name:') sal = float(input('Enter salary:'))

e=Employee () e.id=id

e.name=name

e.salary=sal

pickle.dump(e, f)

f.close()

**Output:-**



