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

Experiment No. 1

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 description

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 descriptived.

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:-



Conclusion: Serialization in Python using Pickle has been demonstrated.