

Serialization and Deserialization

what is Serialization?

the process of converting python supported data format into file/network supported data format, is known as a Serialization.

in python, the Serialization concept is also known as a pickeling/marshaling an object.

what is Deserialization?

the process of converting file/network supported data format into python supported data format, is known as a Deserialization.

in python, the Deserialization concept is also known as a unpickeling/unmarshaling an object.

we can implement the Serialization and Deserialization concept in python, python provides various libraries they are

pickle
marshal

pickle module is more popular when compared to marshal module.

pickle module is a builtin module.

we can implement the Serialization in python, by calling dump() of pickle module.

ex1:

```
---
import pickle
x=[2,3.1,4j,"siva"]
with open('simple.txt','wb') as f1:
    pickle.dump(x,f1)
```

output:

```
-----
simple.txt
-----
€•D      ]”(K G@ïïïïïïïïf€builtins”E complex”””G      G@      t”R”€siva”e.
```

we can implement the DeSerialization in python, by calling load() of pickle module.

ex2:

```
---
simple.txt
```

```
-----
€•D      ]”(K G@i i i i i i f builtins”E complex”“”G      G@      t”R”E siva”e.
```

```
import pickle
with open('simple.txt','rb') as f1:
    print(pickle.load(f1))
```

output:

```
-----
[2, 3.1, 4j, 'siva']
```