DAY-18 Pickling In General terma: of food by either analrobic for montarion in brine or immercion In Python: -> the process where by a pythion object hierarchy is converted into a byte stream to monitain program étate across sessions, or transport over the network. Unpickling! - the inverse operation, whereby a byte stream is converted back into an object hierarchy. is alternatively known as serialization, movishalling, or flattering. Module: Module: -) picke module implements a fundamental, but powerful algbrithmi for socialisation and Le servalization a python object strukure \* Pickling is only for Objects. Python pickle Mahula python

pickle duppe

pick. load()

upickle pickle 100110 01010 1101111 00000 110010

```
HerCharacter.py > ...
      class HerCharacter():
          def init (self,character):
              self.character=character
          def getHerCharacter(self):
              print ('Her character is ',self.character)
 6
```

```
AdditionalReason.py > ...
      class AdditionalReason():
          def init (self,Reason):
              self.Reason=Reason
          def getAdditionalReason(self):
              print("'N Of course ",self.Reason)
```

```
WhyShe.py > ...
      class WhyShe():
          def init (self,Reason):
              self.Reason=Reason
          def getWhyShe(self):
  4
              print('She is a ',self.Reason)
```

```
Unpickling.py > ...
      import pickle, HerCharacter, WhyShe, AdditionalReason
     f=open('picklePack.dat', 'rb')
     objectList=[]
      try:
         while True:
             object1=pickle.load(f)
10
             objectList.append(object1)
11
      except EOFError:
          print('<---->')
12
13
      objectList.append(100) #Just to check different cases
14
15
      print('Objetcs Count: ', objectList. len ())
16
17
      for obj in objectList:
          if isinstance(obj,HerCharacter.HerCharacter):
18
19
             obj.getHerCharacter()
          elif isinstance(obj,WhyShe.WhyShe):
20
21
             obj.getWhyShe()
          elif isinstance(obj,AdditionalReason.AdditionalReason):
22
             obj.getAdditionalReason()
23
24
         else:
             print(('\nUnknown type ',type(obj))
25
```

```
Pickling.py > ...
     import pickle, HerCharacter, WhyShe, AdditionalReason
2
     characterPickle = HerCharacter.HerCharacter('very good')
     whyPickle = WhyShe.WhyShe('Topper and also a Programmer')
     ReasonPickle = AdditionalReason.AdditionalReason('short and cute ')
     with open('picklePack.dat', 'wb') as f:
         pickle.dump(characterPickle , f)
         pickle.dump(whyPickle , f)
         pickle.dump(ReasonPickle , f)
10
11
        print('<---->')
12
13
```