Task 1.2 To address this task, we need to implement the classes in Java: map consumes (Valle) and simplefile (ontaines (Value).

Marconfainer Lvalues

neur Llong, values for sooting the objects

Import java util Hashmap; Import java util map;

Public class narrondaines 2 Value > 1 mpk ments

Java atil. map Llong, value }

Polvale map21 ong, values consaines;

Polvate long, neotkay;

Public marcontaines () {

This, container = new trush map 2) ();

This next key = 04;

3

Public Long put (value value) { Long key = next Regtti Containes put (kg, value); refum kegi while in material and the of contrating to taring @ overnide Public value get Cobject kcy) { return containes. get (key): @ override Public value remove (object kcy) { redum container. remove (kcy) January Commencer in the second

part (6): SimpleFile Container 2 Value)

The simple File consumes LValues class Will implement a file based consumer thest assist social neutron to write data to a file. Here are the resurrements and steps.

Sample implementation of simplefilecontainer Maple

Import dava.io. ;

impost java util. Hashmap;

import java util-map;

Public class simple File Constainer Lvalles {

parate final File detetile;

private Fihal File metadastile;

Private Final Fixed Size se Halizer Lualle)

private long nearkey; scrainer

Private final mars Llong, Long Kegolfsefman;

Public simple File continuer (File destable, File

metadestable, Fixedsizerclairer Ludio

this datafile = datafile;

this. netadodatile = metadostatile;

this scoralier = scoralier; this heattey = 0; thokejoll setman = new technen 2000; Public Lopy put (value value) throng Io Exception { toy (pandom Acces 11 File out znew Romerom Accessfile (dels Ste, 500) long offices = out length (); rouf seek (offset) oat. WorkByte (1); of out. Wolk (serializer. scralzer (value)); kgoffsetmap.put (nentkey, offset): redum neadlegts;

The state of the solution of

restricted all all the

Public value get (Lors keg) throws Is exception } Long offset = kejoffsedmar. ged (key); if (offset==nail) regum naili toy (RandomAccessfile rad = new Random access file Calabafile, 4'D) {

raf-seek (offsed); if (sat readyte () == 0) setum nau; byte CI dada show byte Conalier getsize Co. out read lany (data); Motion schalizer desenalier (data); Alblic Void ocmove (Long key) throng Iocacentens Long affsed = keguffsetmap. get (key); if (offset!=nall) { toy (Random Accessible dat = new Random) accessfile (dotable, " vwi) { raf. seek (o Hsof); vaf. wolk Byte (0);