Java Programming Assignment - 3

Array 11st operations

(a)

Dimport iana . util . Arraylist:

import jara . util . scanner;

public class Arraylist operations of

public static void main (eming[] args) {

firmulist <sming > list = newarray (tyt ();

Scanner = new scanner (system.in)

system. out println ("enter names to

while (true) {

string input = Scanner. nextline();

if (input equal ignore case ("exit"))

breat;

list add (input);

string searchname: sanner.next();
int position=list-index at (search name);

it (position=-1) {
 Systemout-print(n ("found"));

else 1 system out println ("not found"):

system. out. printin ("current list elements");

for Carring name: list) of

system. out. printin (name);

Scanner. close();

Create a program that demonstrates that use of a hashset store connection of names, Add a name to the set and remove trom set

0

Import java. util. Hashset;
import java. util. scanner;
class Hash operations;
public static void main (sming[]arqs)

Hash set (string) names new Hash set L7 (7);

System. out. println ("enter name to remove");

names . remove (remove name);

system.out. print ("enter name to check");

it (names . contains (check name)) {

system.out.println (check name);

```
system.out.printen (check name);

system.out.printen ("current name");

for Cstring name: names) of

system.out.printen (name);

y

scanner close C):

y

write a java program that demoves

At a migrity access to store the
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(3)

write a java program that demoves the use of a priority queue to store the employees, include tenctionality odd priorities and employee and display the queue.

import java. util. priority queue;

import java. util. Scanner;

public class priority queue operations {

public static void main (string[] args) {

priority queue <employee> queue;

priority queue <employee> queue;

scanner = new scanner Csystem. in);

system.out. println ("Enter Employee nams);

while (true) {

string. input = scanner. nextline ();

it (Input. equals Ignore case ("exit"))

Static class employee implements comparable

int priority!

employee, string name, int priority of

this name = name;

this priority = priority;

public int compare to Cemployee other);

return integer compare (this priority)

y Y

(D)

A

create a Hash map that stores student IDS and their names your program should add bey value Hashmap. Remove a student using a their ID display all student entries.

import java. util. Hashmap;
import java. util. scanner;
public elass thathmap operations of
public static void main (etring c] args) of
thashmap c Integer, string > student map

Parable . inew Hach mapes Chi Scanner s= newscanner Caystem. in): System. Out. print ("enter student ID) Int search Id = Scanner. new 2ntc): it (student name (= null) & Systemiout; printin ("-lound student"); eise & System. Out. printer ("no student found"): system. out print ("Enter student in to remore"); int remore ID, scanner. nextInt () System. out printen ("current student entries); For Cinteger id: student map, rey set ()) of system.out.printen ("DO") scanner . crosels;

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