Assignment-I

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QI What is Text I/O?

And ran read by a text editor.

This text 1/0 means text input-output

The dead in a lext file are

Sava programs are stored in text file

and can read by a text editor.

This text 1/0 consists of sequence of

characters and numbers etc.,

Hence, it is known as Text I/o.

Q.2] What is Binary I/o?

And Binary I/o means Binary Input-Outpute

Data stoked in a binary file are

sepresented in binary form you cannot

read binary files. This files are

designed to be sead by programs.

For example, Java Chares are stoked

in binary files and are read by

the Jyri. The advantage of binary

Piles is that they are mare efficient

to process than text files. Therefore,

it is known as Binary I/o.

Q3) what is Random Acress File?

Ans All of the streams you have used so for one known as read-only or write-only streams.

The external Piles that corned be updated

The external files of these streams one sequential files that cannot be updated without cheating a new - It is often necessary to modify files os to insest new secosde into P3/28= Java provides the RandomAccess File class to allow a file to be send from and write to at random locations Q 27 what is Tail Recursion? Ans A secussive method is said to be tail recursive If there are no pending opesations to be pestosmed on return from a recursive call. Fos example:void point (ent n) of (n < 0) setusning count << " " << n; E (1-1) £ (n-1) 3 - so, it is known as Fail Recussion.

QS] Deline Genezics Class.

Are Grenesics is the capability to

Parameterize types. With this capability,

you can define a class as a

method with genesic types that can

be substituted using concrete types

by the compiles.

- For example, you man define a generic stack close that stores the elements of a generic type.
- From this generic types closs, you may execte a stack object for holding stack object for holding holding numbers.
 - 14ese, strings and numbers are concrete types that spplace the generic type.

Q6 Explain List

As List Interface is the subinterface

- insest and delete elements.
- Tt is a factory of list Iterator
- List is an ordered collection of objects

in which duplicate values can be stosed.

- Since list preserves the insertion order.
 It allows positional access and insertion of elements.
- List Interfere is implemented by the classes of Assaylist, linked list, vector and steele

979 Explain Comparator Interfore.

- Ans Java Comparator interface is used to

 08der the objects of a user-defined

 class
 - This interforce is found in javantil

 package and conteins 2 methods

 compase (Object objil, Object obj2)

 and equals (Object element)
 - # It provides multiple sosting sequences
 i.e., you can sost the elements
 on the box's of any double
 member for example sollno name
 age or anything else
 - Sometimes you want to incest elements of clifferent types into a type set.

 The elements may not be instances of composable as one not composable

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- You can define a composator to compose these elements. To do so, create a class that implements the gavantil composator interface.

- The composatos interface has two methods, compase and equals.

88 Explain Vector

Les Vectos is the same as Assaylist, except that vector contains the symbonized methods for accessing and modiffing the vector.

- More of the new collection data structures introduced so far are synchronized.

TP syncheonization is required, of you can use the synchronized versions of the collection classes.

- This classes are Entscolured later in the section, "The collection Class".

- Vector is di implements a dynamic

Assay. It proves to be very useful

if you don't know the size of

the assay in advance or you just

need one that own change sizes

over the lifetime of a program

Qq) Explain Queue and Priority Queue: Dre A quene is a fisst-in/first-out data structure. Elements are appended to removed from the beginning of the In a peroxity queue elements are elements the elements with the highest psiosity is serroved first