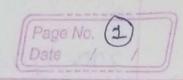
JAVA Assignment: 2 20DCS103

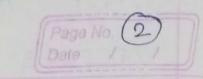


- 1. Give java packages and it's significance
- prevent neminal conflicts, to control access, to make searching locating and usage of classes; interfaces, enumerations and against and annotations easier, etc.
- A package can be defined as a grouping of related types [dusses, interfaces, enumerations and annotations I providing access protection and namespace.
- Java. io classes for input,

 output functions core

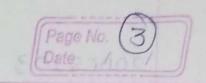
 bundled in this package
- while creating a packeage, one should choose a name for the packaage and include a packaage statement along with that vame at the top of every source file that contains the classes, interfaces types that one wants to include in the package.

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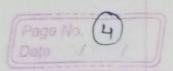


- 2. Is it impositant that a Try block should be followed by Cutch block in terms of exception hundling. ?
- try block must be followed by a catch block in java.
- a After try block we can use either coutch block on finally block.
- the method.
- 3. Wheat is the meaning of multithreadings
- -> Multithreading is a process of executing multiple threads simultaneously.
- The smallest unit of processing.
- Multipaccessing and multi threading, both are used to achieve multi tasking.
- at It is mostly used in games, animation,

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- H. Why the runnable interface is being used in java?
 - The runnable interface is being used in java as it provides a standard set of rules for the instances of classes which wish to execute code when they are active.
 - The most common yse case of the rynnuble interface is when we want to override the ryn method.
 - public void ryn() takes no enguments.
 When the object of a duss implementing rynnodie cluss is used to weake a thread, then the ryn method is invoked in the thread which executes seperately.
 - 5. Crive the 2 ways in java implementing multi-threading.
 - -D. 1) Mylti threading by extending thread class.
 - Here, in this example the method-I



20DCS 103 class Multithreading Example extends Thread public void run() System.out.println("Thread is in running state."); public static void mouin (String angs [])

Multithreading Example et = new U Multithreading Example () ;

el. Stuht ();

Ma Thread is in running state.

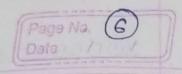
2) Myltithreading by implementing runnable interface.

class Multithreading Example implements Rynnable

public void MMC)

System. aut. println ("Thread is in running state.");

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without leaving behind a lot of new unused objects.

- 7. There is gasbage collection in java, how it is being done?
- The garbage collection is a process of reclaiming the nuntime unused memory automatically.
- To nuke it clear, it is a way to destroy the unused objects.
- There agre many ways to do it:
- 1) By nulling the reference.

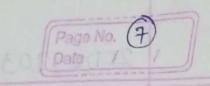
Employee e = new Employee(); e = null;

2). By assigning reference to another.

Stydent st = new Student(); Student 32 = new Student();

- Now, 32 is ready orailable ton genberge collections.

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- 8. How you can make save that a resource is not being used by numerous threads simultaneously ?
 - P. When multiple threeds are working on the same delta and the value of our delta is changing, that scenario is not thread safe and we will get inconsistent results.
 - of resource is not being used by numerous threads simultaneously.
 - 9. How to use concept of synchronizaction?
 - s Synchronization is the process of allowing only one thread at a time to complete the particulary task.
 - JH means when multiple threads executing simultaneously and want to access the same resource out the same time, then the problem of inconsistency will occur.
 - inconsistency problem by allowing only one

20DCS103 10 How can interface be used to support multiple inheritance? exithout using interfaces, it will give a compile time serror. interfaces on a single does which will provide the facilities at multiple inheritance in journ. - Example: interface student Int - But put :yord skeed(); interface teacherInt 3. void theud(); class Person implements studentint, teacherint Void skeed() System.out.println("Student is reading!");

