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6] Post Experiment Exercise

A) Extended Theory

1) Explain some of the built in packages in Java.
Package in Java is a mechanism to encapsulate a group of classes, sub-classes & interfaces which are part of java API.

(i) java.lang :- Contains language support classes which define primitive data types, math operations. This package is automatically imported
(ii) java.io :- Contains classes for supporting input output operations
(iii) java.util :- Contains utility classes which implement data structures like linked list dictionary.
(iv) java.applet : contains classes for creating applets.
(v) java.awt :- Contains classes for implementing the components for graphical user interface.
(vi) java.net :- contains classes for supporting networking operations.

2) Explain the benefits of using packages in java
The benefits of using packages in java are as :-
(i) Programmers can define their own packages i.e. a group of classes/interfaces etc.

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(ii) It is a good practise to group related classes implemented by you so that a programmer can easily determine that the classes, interfaces, enumerations & annotations are related.

(iii) Since the package creates a new namespace there won't be any name conflict with names in other packages.

(iv) Using package it is easier to provide access control.

6] Conclusion :-

In this ~~we~~ we have studied how packages are implemented in Java by ~~writing~~ writing programs that implement the concept of packages.

Packages allow programmers to bundle a group of classes. & This is a good practise as it makes our code more manageable and readable.

While creating a Java package we should keep in mind that the package statement should be the first line in the source file there can be only one package statement in each source file. Packages provide access protection & it removes naming collision.