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INFORMATION TECHNOLOGY FOR CLASS 12

(Study materials based on N.C.E.R.T)

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INTRODUCTION TO COMPUTERS, PROGRAMS AND JAVA

Application Programming Interface (API)/Java Standard Library (JSL)

- ❖ Java API provides a large number of classes which are grouped into different packages according to functionality. Following table shows the built in package of Java.

Sr. No.	Package Name	Contents
1	Java.Lang	Language support classes. They are used by java compiler itself and thus automatically imported. They include classes for primitive types, strings, math, thread, and exceptions.
2.	Java.IO	Input/output support classes. They provide support for input and output.
3.	Java.util	Language utility classes such as vector, date, hash tables random numbers etc.
4	Java.awt	Set of classes for implementing Graphical User Interface (GUI). They include classes for windows, buttons, lists, menus and so on.
5.	Java.Applet	Classes for creating and implementing applets.
6.	Java.net	Classes for networking. They include classes for communication with local computers as well as with Internet servers.

Java identifiers:

- ❖ All java components require names. Names used for classes, variables and methods are called identifiers.
- ❖ In Java, there are several rules for identifiers. They are as follows:
 - (i) All identifiers should begin with a letter (A to Z or a to z), currency character (\$) or an underscore (_).
 - (ii) After the first character, identifiers can have any combination of characters.
 - (iii) A keyword cannot be used as an identifier.
 - (iv) Identifiers are case sensitive so Amar and amar has different meaning.

- (v) Examples of legal identifiers: age, \$salary, _Phone, _ID.
- (vi) Example of illegal identifiers: 123abc, -salary.

PRACTICE QUESTIONS

- 1. What is OOP?**
- 2. What is OOPL?**
- 3. Which fundamental terms/concepts are used by OOP?**
- 4. What is object? How to create it? Explain with example.**
- 5. What is class? Why class is called as blueprints for an object?**
- 6. Differentiate between class and object.**
- 7. What is meant by the data abstraction?**
- 8. Write short notes on Encapsulation.**