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INFORMATION TECHNOLOGY FOR CLASS 12

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INTRODUCTION TO COMPUTERS, PROGRAMS AND JAVA

Keywords:

- ❖ There are certain words in Java, special meaning of java. Those have a standard, predefined, special meaning in Java. They are called as keywords or reserved words and they can be used only for their intended purposes.
- ❖ A keyword is subject to the same rules of identifiers but cannot be used as a user-defined name in a java program. The keywords in java are formed using lower case letters only.
- ❖ Keyword in Java are given here:

Abstract	Assert	Boolean	Break
Byte	Case	Catch	Char
Class	Const	Continue	Default
Do	Double	Else	Enum
Extends	Final	Finally	Float
For	Goto	If	Implements
Import	Instance of	Int	Interface
Long	Native	New	Package
Private	Protected	Public	Return
Short	Static	Strictfp	Super
Switch	Synchronized	This	Throw
Throws	Transient	Try	Void
Volatile	while		

Constants:

- ❖ In java constants, refer to fixed values that do not change during the execution of a program.
- ❖ Java supports several types of constants below:

1. Integer constants:

- An integer constant means the sequence of digits. There are three types of integers:

- a) **Decimal Integer:** Decimal Integers consists of a set of digits, 0 through 9 preceded by an optional minus sign. For example: 325, -978, and 45673. Embedded spaces, commas and non- digits characters are not allowed between digits.
For example: 15 78, \$657-, #47 is illegal number.
- b) **Octal Integer:** An octal integer constant consists of any combination of digits from the set 0 through 7, with all leading 0.
For example: 027, 0, 0231, and 0341.
- c) **Hexadecimal Integer:** A sequence of digits preceded by 0X or 0x is considered a hexadecimal integer (hex Integer), they may also include alphabet A through F or a Through F. A letter A through F represents the number 1 through 15
For example: 0X4, 0X15, Xabcd.

Real Constant:

- ❖ Integer's numbers are insufficient to represent quantities that vary continuously, such as distance heights, temperature, prices, and so on.
- ❖ Numbers having fractional parts like 17.548 represents these quantities. Such numbers are called real (or floating point) constants.
For example: 1.9783, 0 0047
- ❖ The real number constant can comprise of four parts namely, whole number, decimal point, fractional part and exponent part..
- ❖ These numbers are shown in decimal notation, having a whole number, decimal point and the fractional part, which is an integer.
For example: 0.035, 111.98
- ❖ A real number may also be expressed as in exponential (or scientific) notation. For example, the value 215.65 may be written as 2.1565e2 in exponential notation.