Code at Random

(OPC)   PVT. LTD.

String Handling
in JAVA

What are Strings

- It is a group of characters enclosed within double quotes.

- An array of characters works same as Java string.

- String is not a primitive data type i.e., a user-defined data type.

- In Java, string is basically an object that represents sequence of char values.

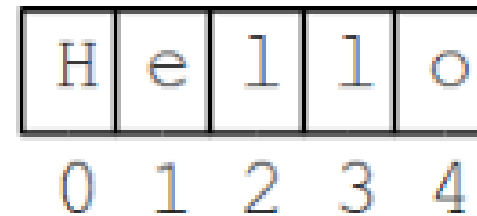|	0	1	2	3	4	5	6	7
str →	C	O	M	P	U	T	E	R

Concept of Strings

- Since arrays are immutable(cannot grow), Strings are immutable as well. Whenever a change to a String is made, an entirely new String is created.

- For example:
  char[] ch = {'j' , 'a' , 'v' , 'a' };
  String s = new String(ch);

J	A	V	A

str

H	e	l	l	o
0	1	2	3	4

String object

Declaration of Strings

- There are two ways to create String object:

- By string literal

- By new keyword

- Methods to initialize a String In JAVA:-

    i.   String s = "Java";
    ii.   String s = new String("Code At Random");
    iii. String s ; s = "CR";
    iv. String s = new String();
         s = "Code";

Some More Points Regarding Strings

- The String class is present in the java.lang package.

- Since arrays are immutable(cannot grow), Strings are immutable as well. Whenever a change to a String is made, an entirely new String is created.

- The java.lang.String class provides many useful methods to perform operations on sequence of char values i.e., on String objects.

- For example, the length of a string can be found with the length() method.

- There are many string methods available, for example toUpperCase() and toLowerCase().