**- OTHER TIPS–**

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| **JAVA** | | |
| **NAME** | **DESCRIPTION** | **EXAMPLE** |
| **Scanner class:** | Scanner is a class in java.util package, used for obtaining user input of the primitive types like int, double, etc. and strings. | ***package com.lec.ex;***  ***import java.util.Scanner;***  ***public class Example* {**  **public static void main(String[] args) {**  **Scanner sc = new Scanner(System.in);**    //String input  **System.out.println("Name: ");**  **String name = sc.nextLine();**    // Character input ((charAt(0) returns first character in that string)  **System.out.println("Gender: ");**  **char gender = sc.next().charAt(0);**    // Numerical data input  **System.out.println("Age: ");**  **int age = sc.nextInt();**    // Others (byte, short and float can also be used    **System.out.println("Mobile num: ");**  **long mobileNo = sc.nextLong();**    **System.out.println("Height: ");**  **double height = sc.nextDouble();**    **System.out.println("The user "+ name + " (" + gender + ") " + "is " + age + " years old" + " with the phone number " + mobileNo + " and height of " + height );**  **sc.close();**  **}**  **}** |
| **Math.random**  **(Class Math)** | Returns a double value with a positive sign, greater than or equal to 0.0 and less than 1.0. Returned values are chosen pseudo- randomly with (approximately) uniform distribution from that range. | **public static double random()**  **int computer = (int) (Math.random() \* 3); // 0,1,2**  // (int) is used in order to convert a double value (random value that the computer generated), in to a integer = Manual Narrowing Casting |
| **Importing classes** | Importing all the classes from the relevant package | **Import PackageName.\*** |
| **Instance of** | Checking which class the object is from, or inherited from | **Object instanceOf type**  **Example:**  **Public class Banana implements fruit {**  **}**  **Public apple {**  **}**  **Main class:**  **Banana fruit = new Banana ();**  **System.out.println(fruit instancof Banana);**  **System.out.println(fruit instancof Apple);**  **Result:**  **True**  **True** |
| **parseInt** | Parses a string and returns an integer |  |
| **Ordering in Ascending order** | Comparing number at index x with number at index x+1, and switches their order around if the prior is larger than the latter | **for (int i = 0; i < variableName.length; i++) {**  **for (int j = i + 1; j < lotto.length; j++) {**  **if (lotto[i] > lotto[j]) {**  **int temp = lotto[i];**  **lotto[i] = lotto[j];**  **lotto[j] = temp;** |
| **Trimming space** |  | **numstr = numStr.trim()** |