

Day.8

import and static import
Default access specifier
Java source file coding rules
Using Jars (Libraries) in Eclipse
Packages
Scanner class
The Object class - toString method
The equals method and hashCode method
Wrapper classes, Primitive Wrapper classes, Immutability, Autoboxing and Unboxing, Overloading
System class
Command Line Arguments
Variable arguments

Q1) Get two numbers as input from the user through console and swap the values of two numbers without using a temporary variable and display the same.

Q2) Create a new project in which create a package named org.animals. In that create various classes like Lion, Monkey, Elephant. In each class create data members like color, weight and age. Create methods like isVegetarian, canClimb, getSound.

Create another project and in that create a package called zoo and create a class called VandalurZoo and create objects for the animals that are existing in zoo and print the characteristic of each animal.

Q3) Write a method named total which can take any number of parameters and returns the sum of the total parameters passed. You can pass any number of parameters including arrays also.

```
e.g. total(2,3);  
      total(1,2,3,4,5,6,7,8,9,10,11);  
      int []arr={1,2,3};  
      total(arr);
```

Then call the method from main method by passing various arguments and print the result in main method.

Note : You have to define only one method named total.

Q4) Write a program which will accept any number of integers from command line and print the sum total of it. If any of the argument is not integer it should give a message – it is not a number and it won't be included in the sum. For rest of the arguments it will print the sum.

e.g. java Demo 1 2 3 4

Sum = 10

But if java Demo 1 2 abc 3 dd

[abc] is not a number and it won't be included in the sum.

[dd] is not a number and it won't be included in the sum.

Sum = 6

Q5) Write a program so that whenever you say `System.out.println("any text")` it should go to a file `abc.txt`. It should not be displayed on screen. All the text which is in `System.out.println` should go to the file and it should not be displayed on the screen.

Q6) Create 2 methods called `average()`, each having two arguments, that will return the average of the two values. One method will have integer arguments and will return an integer value. Other method should accept float values and return float value. Call these methods from main and test.