**Assignment 2**

1. Why we need packages in java?

The meaning of the package is used to group related classes, avoid name conflicts, and to write a better maintainable code

1. What is the default imported package?

Java.lang

1. What is Class? What is Object?

Class is the blueprint for object, it’s a base of a code, object is like the house that build by blueprint which the class is the blueprint, object is the house

1. Why we need constructor?

We need constructor to initialize the object.

1. What is the default value of local variable? What is the default value of instance variable?

There is no default value of local variable, it’s must initialize value first, the default value of instance variable is the default value of the primitive type, like 0, false, or null.

1. What is garbage collection?

it’s job is to re reclaim memory which was allocated by the program

1. The protected data can be accessed by subclasses or same package. True or false?

true

1. What is immutable class?

It’s means once the object is created, it’s cannot change it’s content

1. What’s the difference between “==” and equals method?

== is an operators equals is the methos, == compares reference or memory location of object in a heap, but equals can be overwrite, it can compares everything once you overwrite it

1. What is wrapper class?

Wrapper class is class that have the same data types of the eight primitive data types

1. What is autoboxing?

It’s related to the wrapper class. Autoboxing is the automatic conversion that the java compiler makes between the primitive types and their corresponding object wrapper class

1. StringBuilder is threadsafe but slower than StringBuffer, true or false?

true

1. Constructor can be inherited, true or false?

false

1. How to call a super class’s constructor?

Using the keyword super

1. Which class is the super class of all classes?

Object class

1. Create a program to count how many files/folders are there inside one folder.

* the count method should take a parameter called Criteria like this: count(Criteria criteria){}
* For Criteria class, multiple conditions should be included such as: folder path, includeSubFolder or not, the extension of the file be counted and so on.
* Optional: Take the input from keyboard.
* Take care of the invalid inputs. Exception handling.
* Get proper result displayed.  
  ”There are XXX file(s) and XXX folder(s) inside folder XXX with extension XXX.” or something user friendly.
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